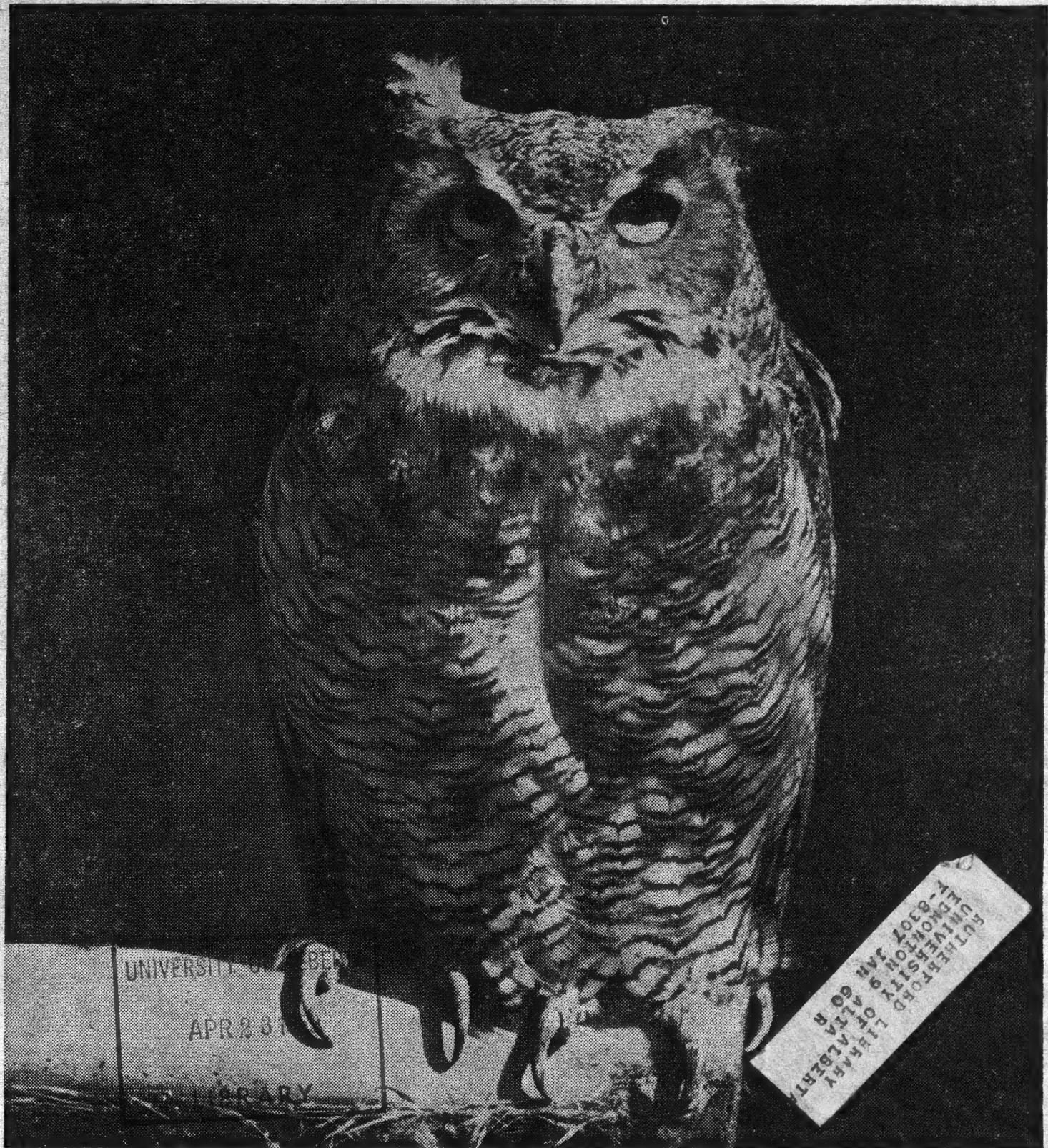


# Farm and Ranch Review

VOLUME LV.  
NUMBER 4

CALGARY, ALBERTA  
APRIL, 1959



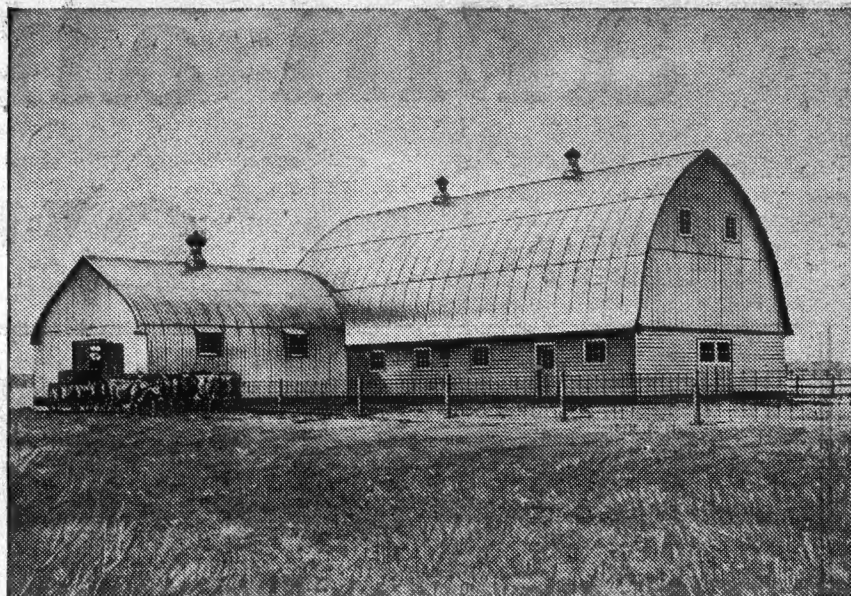
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- *Nothing Mysterious About Sheep*
- *Hunting a Grizzly*
- *The Killing Wood Tick*
- *Farming Around The World*

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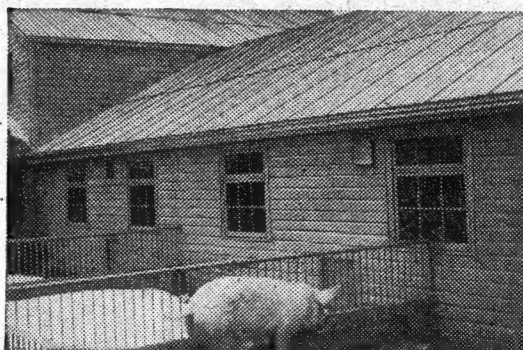


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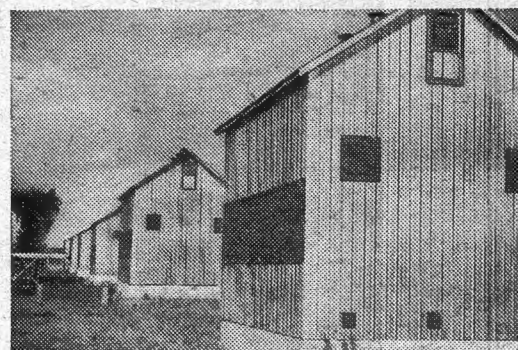


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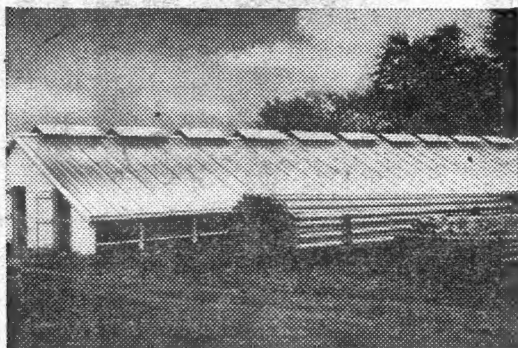
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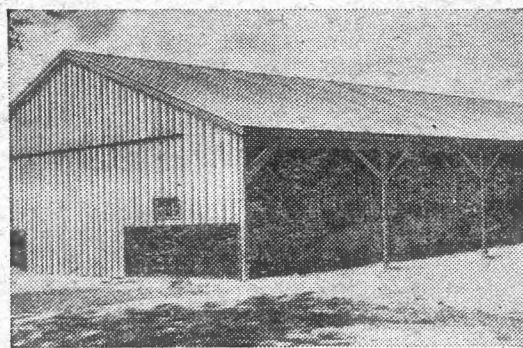
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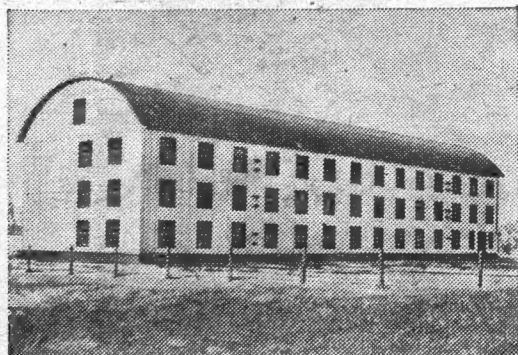
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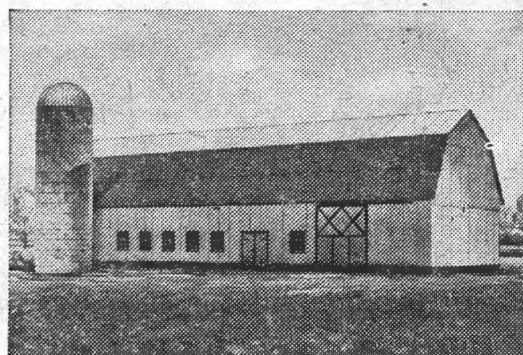
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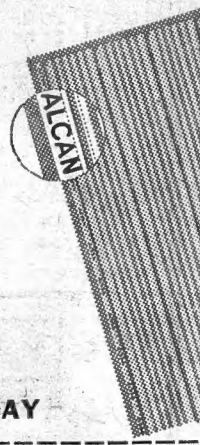
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# Farm and Ranch Review

Western Canada's Pioneer Agricultural Magazine

Vol. LV.

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P.O. Box 620, Calgary, Alberta

No. 4

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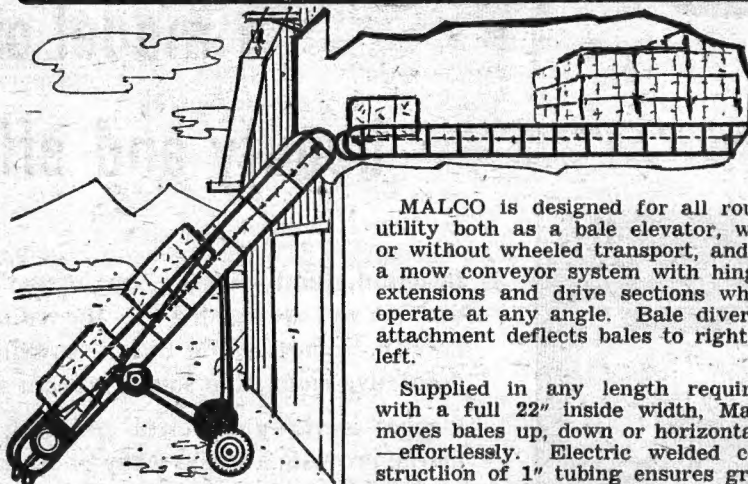
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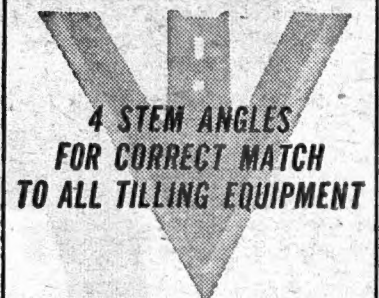
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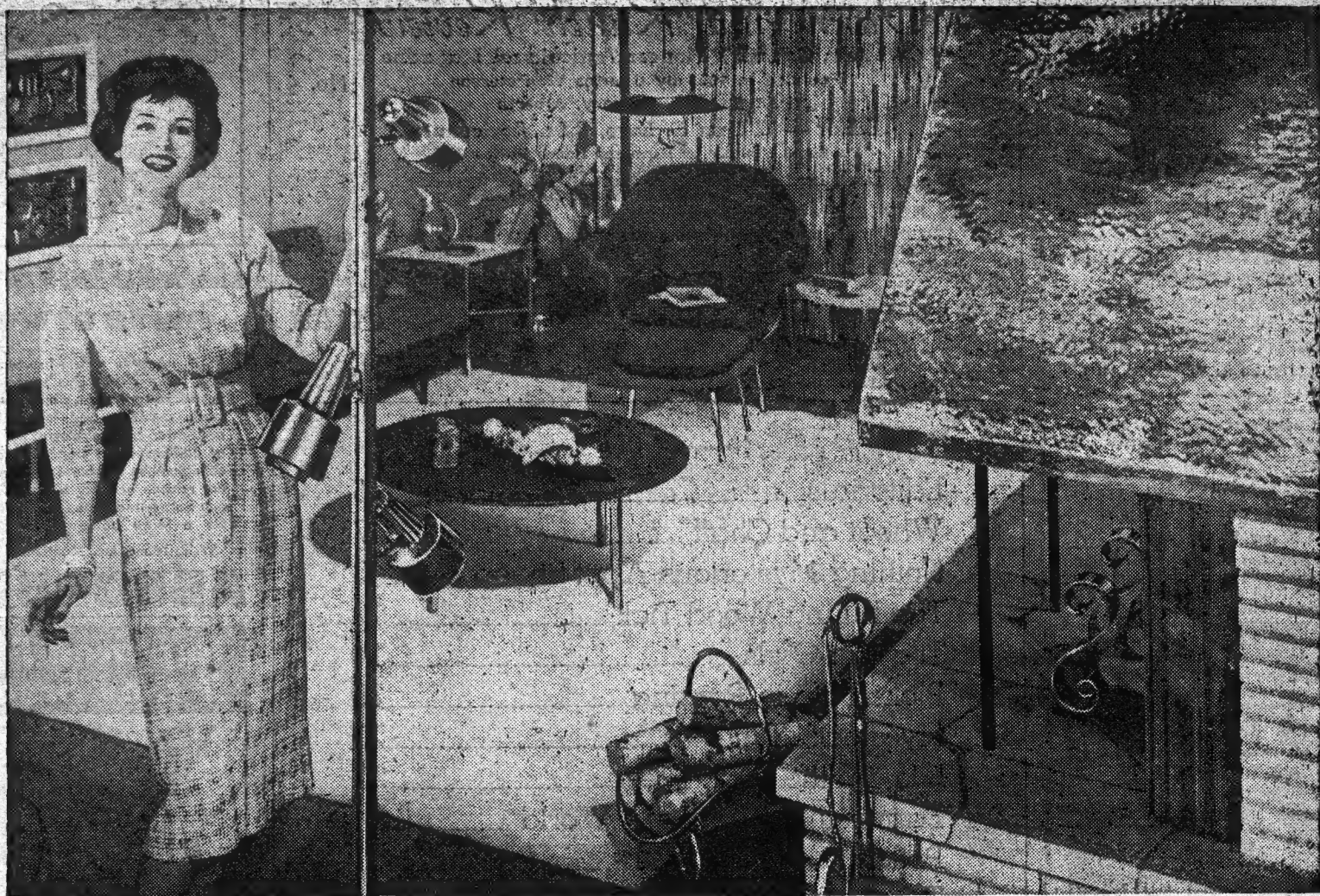
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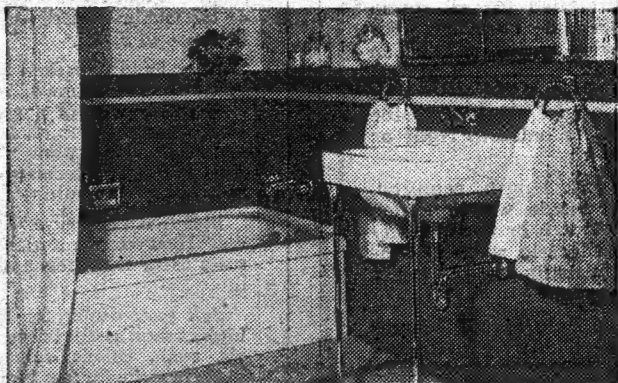
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# Editorials . . .

## Subsidies bring controls

*. . . Subsidies are generally the cause,  
not the cure for a surplus*

CANADA'S Agriculture Minister made the understatement of the year when he said, "The assured price under the existing stabilization program appears to have been an important factor in the greatly accelerated production . . ."

Mr. Douglas Harkness was, of course, referring to the surplus of pork products. In announcing last month that the support prices for hogs under the Agricultural Stabilization Act are to be continued, he also announced some important adjustments to the program. Among other things, government payments are to be limited (to any particular individual) to a specific number of hogs delivered.

The net result will be a curtailment of

production by the biggest and most efficient producers who will be effectively prevented from capitalizing on the subsidies. For the time being anyway!

No one should be surprised that the inevitable is happening. Government production controls always follow hard on the heels of government subsidies.

This is the thin edge of the wedge that will invariably be driven home . . . the higher subsidies climb, the longer they are in effect, or the greater becomes the surplus.

It is an economic fact that any subsidy that is big enough to keep the least efficient producer in business, is big enough for the most efficient producers to create a surplus.

protect the bank (and its clients) from possible loss of the loan, and it would distinguish between funds for capital expansion and funds for other purposes.

The net application of such knowledge would be an adjustment of the national economy through manipulation of the banking policies to check inflation in boom times and to stimulate activity in slack times.

These are practical steps, but the same old fly is in the ointment again.

Who is going to check the government's financial policies? Why is it that regulations (which amount to laws) are good when applied to taxpayers, but do not apply to people in government? Is this just another case where government thinks it is above the natural laws of finance that apply to everyone else?

Is it right that a government office in the interests of controlling inflation, clamp down on the credit and loans extended to tax-paying citizens, while the government itself is permitted to borrow unlimited sums for its own purposes? If loans are not available for farmers who desperately need the credit, why should they be available for governments to expand their operations? The natural laws of finance apply to government just as to the individual, and if a government doesn't have the money in its treasury then creating credit out of thin air is a definite threat to our monetary system.

Governments produce nothing. They are a burden — a necessary expense! They are only made possible by the payment of taxes. The bigger the government becomes, the more extensive the handouts to every vocal pressure group, and the greater the freedom of action permitted government officials, the bigger the burden that must be carried by those on the bottom of the pile . . . which is you.

\* \* \*

ONE of the first sure signs of spring is the appearance of the blooming idiots along the highways.

Mr. Harkness knows only too well that there is no sense whatsoever in government subsidizing a continuing surplus, and he continues to hint strongly that the present stop-gap legislation will be replaced by an alternative plan. Any new plan will have to be a good one to solve the other problems of agriculture . . . not the least being the demands of wheat producers for subsidies to carry them through this period of wheat surplus when it is difficult to give wheat away, much less sell it.

The fact remains that the surplus will have to be cut down, and if production controls become necessary, they will result from government subsidies to wheat growers. Yet the Dominion Bureau of Statistics reveals that prairie farmers intend to increase their wheat seedings by 9% this spring.

There's something wrong somewhere when prairie farmers march to Ottawa to demand deficiency payments in this period of surplus, and then march right back home again to increase their wheat acreage. With no improvement in markets in sight, production controls are inevitable . . . if not by government or by mother nature, then certainly by common sense.

## Fly in the ointment

CANADIAN chartered banks have their hackles up over a present demand by Ottawa's Inspector-General of Banks that they produce a monthly report listing the names of people and firms who borrow large sums of money.

Many people feel that it is a breach of the time-honoured "confidential relationship" between the banker and its customers. Critics feel that it is surely enough that Ottawa receive a statistical breakdown on the amount of money in circulation, but that in a democracy, it is surely too much to permit any government appointees to spy on the individual to see how he's handling his finances. They say it's none of the government's business.

But the government has made it its business ever since the early twenties when banks failed, or merged, due to unsound lending. Since the innocent public suffers from any bank failure, the government, as the public's protector, is trying to find out exactly how much money is going where, so that proper monetary controls can be introduced to remedy dangerous trends before they get out of control.

Mere totals of loans don't tell the whole story. For example, an individual or a firm may be getting large sums from different banks, or under the names of several of his own various subsidiary firms, and they may total such a great amount that the field in which they are being invested may become overloaded and unsound. The Inspector-General would see the whole picture of these and other loans and decide whether too much money was being poured into a certain industry at a certain time, and he would put brakes on the credit.

This would have the effect of checking investment in a saturated field; it would

## Notes on the margin

THE \$400,000,000 that were written off the books when Canada decided to drop any further work on the jet interceptor, "The Arrow," left Canadian taxpayers a little shook up, to say the least. The United States navy is also dropping some obsolescent weapons, but it doesn't help much to realize that for less than twice Canada's expense (\$689-million) the U.S. has scrapped five battleships, 23 cruisers and 15 small aircraft carriers.

The cost of living in this jet age is certainly going up.

\* \* \*

LITTLE has been heard from the thousands of Canadian workers who were forced to seek employment elsewhere when Canada sold out her once-proud merchant fleet. The demands of Mr. Hal Banks, International Seafarers' Union boss in Canada were so unreasonable that those jobs are now held by foreign workers.

Somewhat the same situation has shaped up on the west coast where the once-prosperous whaling industry of B.C. is being destroyed by further demands from union officials. Even though original demands of a whopping 40% wage increase were cut in half, they were still too high to offer any prospect of the whaling firms to break even, much less make a return on their investment. When the whalers' jobs have been taken over by the Japanese or Russian sailors, Canadian workers will have no one to blame but their own union officials. Mystery of it all is that any outcry from the individual workers is successfully muffled. Union leaders — like doctors — are somehow able to bury their mistakes.



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of 1 ton of dry hay per acre. Corresponding increases could also be realized from fertilizing pasture.

In the table below, note that the increased return figure takes the cost of fertilizer into consideration. An increased return of \$32.00 per acre is certainly worthwhile.

Fertilizer per acre . . . . . 150 lbs. Nitraprills (Cost \$6.50) \*  
Increased forage yield per acre (dry hay basis) . . . . . 1 Ton  
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**YOUR INCREASED RETURN PER ACRE . . . . . \$32.50**

\* Fertilizer cost figures per acre are approximate.

Your net profit per acre — your profit after you've deducted the cost of growing the crop — gets a real boost from Elephant Brand Fertilizer! This applies to any crop — any soil.

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## *Afford to fertilize?*

THE answer is, "Yes," says the Lethbridge Experimental Farm. In fact, according to information released by U. J. Pittman, the farm agronomist, you can not afford to not fertilize.

"Though greatest increases in yield from fertilization usually occur on relatively infertile soils," he states, "a careful analysis of farm production costs shows that maximum profits may be obtained from crops grown on many other soils only after adequate fertilization. The following calculated returns from the yields of grain obtained in trials conducted by us illustrate this statement. Prices used were: wheat, \$1.25 per bushel; barley, 70c per bushel; nitrogen, 13c per pound; phosphorus, (P<sub>2</sub>O<sub>5</sub>), 9c per pound.

On eroded fine, sandy loam at Claresholm the average yield of wheat on stubble was 26.2 bushels per acre, valued at \$32.75. An application of 20 pounds of nitrogen and 20 pounds of phosphorus (P<sub>2</sub>O<sub>5</sub>) increased the yield to 34.8 bushels per acre, the value of which was \$39.10 after deducting the fertilizer costs. When 40 pounds of nitrogen and 40 pounds of phosphorus (P<sub>2</sub>O<sub>5</sub>) were applied at seeding time, the yield of wheat was 44.5 bushels per acre, the value of which was \$46.82 after deducting fertilizer costs. An expenditure of \$8.80 per acre for fertilizer (40-40-0) increased the net value of the crop produced by \$14.07.

At Fort Macleod on eroded silty clay loam fallow the yield of barley was 39.4 bushels per acre, worth \$27.58. Where 10 pounds of nitrogen and 20 pounds of phosphorus were applied, the yield was 43.3 bushels per acre, but the value of the crop was only \$27.41 after deducting fertilizer costs. However, where 10 pounds of nitrogen and 40 pounds of phosphorus were applied, the average yield was 56.1 bushels per acre, the value of which was \$34.37 after deducting the fertilizer costs. An expenditure of \$2.90 per acre for 10 pounds of nitrogen and 20 pounds of phosphorus netted a loss of income on fertilizer purchases. An expenditure of \$4.90 per acre for 10 pounds of nitrogen and 40 pounds of phosphorus brought a profit of \$6.79 per acre over fertilizer costs.

In each instance the higher rates of fertilizer application produced the highest yields. With high yields the costs per unit of production were lower since fixed costs for land preparation, seeding, seed, weed spraying, and harvesting remained about the same. Lower production costs resulted in higher profits per unit area farmed.

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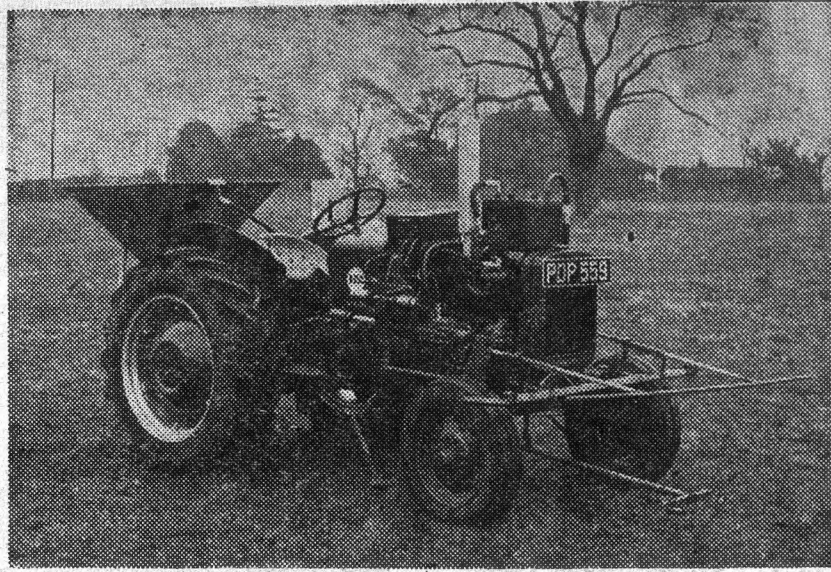
## Look—no hired man!

PERHAPS some day, not so far off, the grain farmer will be able to bask in the shade and sip pink lemonade while his tractor does the work.

Here is a British tractor, made automatic, which is so responsive that it will obey traffic lights, or sound its horn. Except for the attaching and unhooking of implements and plotting its course it will perform several tasks with perfection and ease.

Experiments are now being made to develop the control system so that jobs, such as ploughing, drilling, cultivating, spraying and harvesting may be done with the greatest precision.

The tractor is magnetically controlled and picks up its in-



structions from low voltage alternating current power wires laid either in or on the ground. Sensing coils just above ground

level in front of the tractor control the steering while other coils on each side "tell" the tractor to perform certain pre-

determined tasks. An automatic stopping device is fitted about 2 feet above the ground, at the front, which will halt the tractor for any obstacle in its path.

The tractor is being developed by the co-operation of several companies; CAV Ltd. of London, Standard Telephones and Sales Ltd., London and International Harvester of Great Britain.

Our news information says:

"Developed by the British Electrical Research Association, of Shinfield Green, Reading, England, in conjunction with the University of Reading, the new tractor is seen as the first step towards automation on farms and for the release of manual labour from humdrum routine tasks for those that call for human intelligence."

EARLY to bed and early to rise, nowadays, would only make a man lonely.

THE low state into which municipalities have been forced by a money shortage can be seen in the following news item from Tulsa, Oklahoma: "Officials who had first decided not to accept a subscriber's insulting checks have now, because of the need for revenue, decided to swallow their pride and honor the irate citizen's checks. The first one read: 'Pay to the Order of the City Hall, \$13.50 — for water from a bunch of crooks.' A second one for \$9.75 was drawn to: 'The Crooks of City Hall for a few Drops of Water and Over-charged Sewer Tax.'"

THE difference, says the Farmer's Digest, between a farmer and a gentleman farmer is that the latter escapes the harrowing details.

HERE is a little story which illustrates the art of giving-in gracefully. Two war-time chaplains of different creeds were the best of friends, but broke-up over a sectarian dispute, and were for some time not on speaking terms. Eventually one went to the other and said: "Brother we are both being very silly in this quarrel. We are both striving to do the will of the Lord, you according to your light, and I according to His."

WOMEN who remain single often have many good arguments for retaining their status — the bachelors they meet.

IN 1919, Bob Edwards wrote in his Eye-Opener: "Most of any government's troubles come from trying to uphold the blunders it makes."

A GREAT many people these days are not too clear on the intricacies of inflation and deflation. For

## A little wheat— —a little chaff

by IVAN HELMER

this reason a writer in Punch has tried to clarify the subject, so:

Mr. Heathcoat Amory's financial policy, as many commentators are saying, is now one of reflation, a new word in the -flation family which a consensus of dictionary references interprets as "inflation after deflation." However, I am told by informed friends that there are shades of meaning here, and that, luckily, inflation after deflation runs no risk of inflation as we have been trained to understand it, i.e., over-inflation but merely provides inflation in the sense that anything inflatable, once deflated, needs inflating to a point beyond disinflation yet short of re-inflation. This, then, is what the chancellor is up to—unless the commentators, and my informed friends, are nothing but bags of wind.

WHEN a young farm wife came down to make breakfast she found her husband had been on the rampage in the kitchen with a flyswatter. "Got 'em all," he said, "six females and five males."

"Huh," his wife snorted, "how can you tell?"

"Nothing to it," he grinned, "five were trying to get in the cupboard and six were on the mirror."

THERE may not be as much to do in a small town as in the city, but there is a lot more to hear.

THE ever-ready umbrella, tightly rolled and unfurled only for the heaviest showers of rain, is an insignia, closely associated with the Englishman, but the umbrella originally came from Paris, where it is now rare. Sam Pollock, a BBC speaker, digging into the history of the umbrella said he had found that when it was introduced in London nearly 200 years ago it was considered the mark of a "sissy" and a Frenchman. About 1780 wearing swords in public went out of fashion, and just about then the umbrella was coming in. The pioneer umbrella carriers had a tough time of it. An English traveler who appeared with one in London in 1778 was pursued by a jeering crowd yelling: "Franchman, why don't

you hire a coach?" The umbrellas were unpopular with the hackney coachmen, who regarded it as a threat to their livelihood. (Automation must have been already a bugaboo). Umbrella carriers were regularly and deliberately bespattered with mud, and even lashed with whips by passing cabbies, Pollock found. "But the umbrella men," he said, "came of heroic stock; a heroism which persists today, judging by an account, (he had read) of a girl in Malaya being rescued from a tiger by two passing Britons who had beaten the animal off — with their umbrellas."

WHEN a girl starts to worry about the money you are spending on her the smell of orange blossoms is in the air.

A POEM, by Roland Young, lying around here has had its title lost. We think it was, The Secret of a Lousy, World or something like that. Anyway, this is it:

And here's the happy bounding flea,  
You cannot tell the he from she,  
The sexes look alike you see.  
But she can tell and so can he.

THE Used Car buyer is protected abroad, it seems, as he is here. In Budapest, we read, every car on the lots bears the government guarantee: IT MOVES.

STORIES of how the family buggy got wracked-up are sometimes pretty ingenious. But put yourself in the place of this South Carolina husband. He arrived home to find the car at the curb with a pair of crumpled fenders and a squeezed-in side. Imagine the guy fighting for control when his wife calmly informed him that, a house had gone by too close and hit it. But it had. Movers, moving a frame house down the street, had misjudged their clearance.

THESE are inflationary days. So it was inevitable that youngsters would not escape a "high cost of living." A Bill has been introduced into the California Senate to boost marriage licenses by 150%. This is a squeeze cost for sure, since none in-

tent on entering wedded bliss will be stopped short by a few dollars.

WOMEN don't mind revealing their ages as long as they can have a 10% discount.

DESPITE their best efforts to keep them out, Western ways are slipping into communistic countries. The latest word from Eastern Europe is that these countries are suffering seriously from "citizens stealing from, and swindling the State." What puzzles officials, they say, is the ever growing attitude that swindling the State is part of ordinary living, that there is nothing immoral in cheating the State, or in knowing (without informing) that your neighbor is onto a nice bit of graft. Ho, hum—even communists, it seems, are people.

RUDYARD KIPLING once wrote:

I kept six honest serving men;  
(They taught me all I knew)  
Their names were, What and Why  
and When,  
And How and Where and Who.

PROGRESSIVE Education Note: — In Auburn, Maine, police answered a frantic call for "Help" from an eight-year-old boy at 8:45 p.m. When they arrived they found that the kid's mamma wanted him to go to bed. Junior didn't want to so he had called the police. No further information is available, although it would be nice to know that the lad was safely tucked away for the night with a good warm bottom.

AT least when the world was on the gold standard some of it had common cents.

THIS epitaph is among a collection at the British Museum:  
Beneath this stone, a lump of clay,  
Lies Arabella Young,  
Who on this 24th of May  
Began to hold her tongue.





CANADA'S 1957 sheep population — 1,661,000 head according to Canada Year Book — was less than half of what it was in 1931. Moreover, the recent per capita consumption of mutton and lamb — 2.7 pounds — is less than half of the 5.6 pounds eaten annually by the average Canadian between 1935 and 1959. Nor do the surprises end there; total wool production in 1956 was 7,872,000 pounds, just about one-eighth of the 62,000,000 pounds (grease basis) used in this country in the same year. This means that some 58,000,000 pounds of wool had to be imported during the year.

In spite of promotion efforts from time to time, sheep have rarely been of more than minor importance in Canadian agriculture and as suppliers of Canadian meats. If all the sheep in Canada at census time were divided among all Canadian farms, there would be something less than three sheep per farm. And although Alberta, with 450,000 head had the biggest provincial population in the most recent year for which there are figures, its total divided among all its farms would allow about 5½ sheep per farm.

The fact is that only a small proportion of our farms have sheep. Why is this so? High cost of feeding, danger of loss from dogs and coyotes and unfamiliarity with this class of livestock are the reasons given most commonly by people who do not keep them. One Alberta man said he had never considered sheep because he always thought of them as "myterious critters."

But the alleged obstacles to sheep husbandry are often exaggerated, and on most farms where this class of livestock is kept, owners concede that sheep broaden the economic base of farm operations and have been quite consistently profitable in relation to investment.

Many producers have been successful in raising sheep without the benefit of expensive fencing. Moreover, sheep do not require costly buildings or elaborate equipment. For winter protection, a dry shed ensuring against dampness and draughts is generally adequate. Sheep are naturally well protected against low temperatures.

The autumn is the best time to start a flock and at least a few farmers bought foundation bands in October, 1958. Some started with small numbers — 10 to 25 head — with the idea of expanding to units of more practical and economical size — 60 to 100 head — after gaining experience. Grade ewes and a pure-bred ram afford the usual starting combination. The matter of breed of ram is one for each owner to decide for himself, and there are a dozen or more breeds from which to choose.

On the side of the grade ewes, however, something



D. Clemson, Armstrong, B.C.  
The alleged obstacles to sheep husbandry are often exaggerated, and on most farms where this class of livestock is kept, owners concede that sheep broaden the economic base of farm operations and have proven profitable.

## There's nothing so mysterious about sheep

by GRANT MacEWAN

should be said on behalf of range-bred stock which are usually available in the autumn. Possessing Rambouillet or other fine-wool breeding, they may not be as prepossessing as ewes of the Down breeds — like Hampshire, Suffolk, Shropshire, Southdown and others — but they possess hardiness, flocking instincts and good crossing worth. Some experienced growers of commercial sheep are now pursuing the practice of selling all their crossbred lambs—keeping none for replacement in the breeding flock—and periodically replacing all the worn-out range ewes with younger stock of the same kind, thus perpetuating the advantages of crossbreeding and the maximum of vigor in the in the ewe flock.

Unless a breeder has better than average shelter, lambing should not start until the danger of storms and severe cold has passed. The average period between breeding and lambing is 147 days and most growers of commercial sheep in the West breed to have lambs come soon after mid-April. As experienced breeders know very well, the practice of flushing results in higher percentages of multiple births. Under farm conditions, twin lambs are likely to be more profitable than singles. Flushing consists simply of providing extra feed — usually some particularly good pasture or some grain — for a month before the breeding season begins. Such improvement in feed is expected to result in the release of more eggs from the ovaries and hence a higher rate of prolificacy.

There is nothing very compli-

cated about winter feeding of breeding sheep. Nutritional requirements are similar to those of beef cattle. When hay or other good roughage is fed, grain is usually considered to be unnecessary — at least until a few weeks before lambing. Half a pound a day for the few weeks prior to lambing and a pound or pound and a half a day after lambing until grass is available and good, will ensure better milk supply and faster gains in the lambs.

As a precaution against goitred lambs, potassium iodide should be provided; iodized salt will serve conveniently to meet the usual need for salt as well as the iodine. Should it be necessary to iodize the salt at home, one ounce of potassium iodide may be dissolved in a pint of water and sprinkled over 50 pounds of coarse salt. Cobalt iodized salt furnishing a trace of cobalt in addition to the iodine is now recommended as a wise provision in most areas.

In some instances, market lambs will be on heavier feed while the ewe flock is on winter rations. Inexperienced caretakers should observe special care to see that lambs being started on fattening rations do not overfeed on grain. It can happen easily and with disastrous results. One-quarter of a pound of grain per day per lamb is enough on which to begin fattening operations. Gradually, such grain allowance can be increased to a practical maximum of two pounds per day. For starting such lambs, whole oats is the favorite grain, being the least likely to cause digestive disorders, but there should be a gradual

transfer to the heavier grains. The common feed grains can be fed whole to sheep and lambs. And for the fattening stock, any good native or domestic hay will offer a satisfactory roughage.

It is in the spring that the sheepman must be prepared to give his closest attention to the flock. Perhaps it is a valid objection that the added tasks related to lambing, docking, castrating, shearing and dipping coincide with demands from other spring season operations on the farm. And anything less than constant observation at lambing season will almost certainly lead to losses. The conscientious shepherd supervising a big flock will have to accept the necessity of sleepless nights for the first few weeks after lambing starts. He has learned from experience that the degree of success on a year's operations is often determined at that time.

Ewes experiencing difficulty in delivering their lambs will require assistance. Small pens made from wooden panels or gates are useful for ewes with new lambs. And the attentive shepherd will see that new lambs nurse soon after birth to gain the special benefits contained in the first milk.

Grade male lambs should be castrated at between one and three weeks of age and docking of tails in both sexes may be done at the same time.

Shearing in these mid-western provinces is commonly done in the first two weeks of June, when the "rise" is fairly high in the wool. Power shearing has grown in popularity but hand shearing — an exceedingly onerous task for the amateur — is still the practice in many small flocks. In some districts it is possible to hire custom shearers who work at so much per head. In any case, by good shearing, the wool is removed in one piece, rolled into a package-like bundle with the skin side outermost, tied with paper twine and packed into wool sacks.

Even though prices are not high, producers should aim to market wool possessing the highest quality. Degree of fineness is hereditary but the content of chaff, dirt and other foreign matter in wool is usually a reflection of management methods.

The last major springtime operation is dipping or spraying, mainly for the control of that troublesome external parasite, the ked. Dipping once a year is regarded as a proper practice, usually a week or two after shearing. Dusting with an insecticidal powder is sometimes practiced but it is slower than dipping and likely to find its widest use as a cold weather technique.

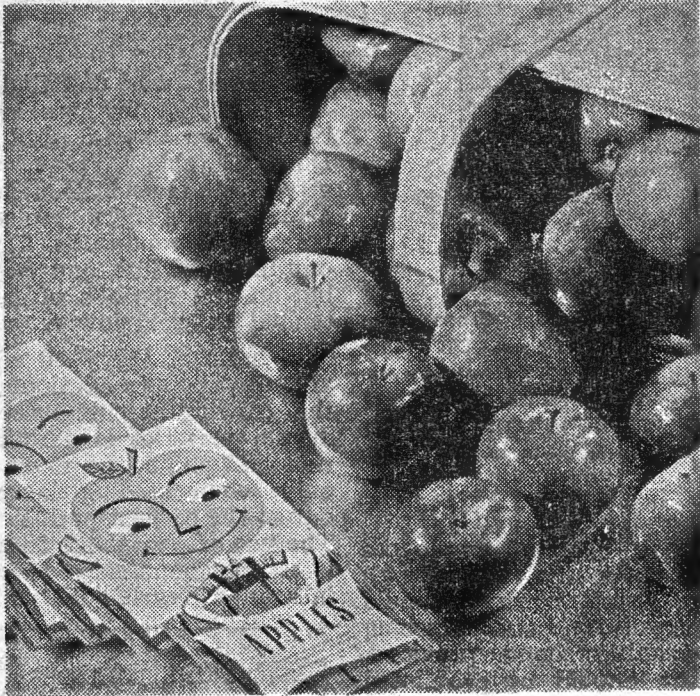
And summer management of a breeding flock is simple enough — unless it is necessary to keep a herder with it as is the practice in the country of big



ranches and ranges. Altogether, there is nothing mysterious about sheep and nothing very difficult about learning the ways of good management. Nevertheless, study and attention to details will prove to be a big aid in achieving success.

The Canadian Sheep Breeders' Association held its 70th Annual Meeting in Calgary in January. Delegates were obviously worried about the 23,000,000 pounds of New Zealand frozen lamb that came into Canada in

1958; they were worried about the wool market, presently in the doldrums; they'd like to see the floor price for Canadian lambs raised and will so advise the federal government. They're all for a lamb-promotion program and are prepared to help pay for it by means of a deduction from wool returns. But they are still convinced that with some added interest on the part of Canadian consumers, the sheep business can play a much bigger part in Canadian agriculture; and they're right.



**APPLES** — An attractive 20-page brochure containing dozens of suggestions for preparing and serving Canadian apples can be obtained free from Information Division, Canada Department of Agriculture, Ottawa, Ont. Prepared by experts in

Consumer's Section, brochure also describes grading, storing and packaging of the fruit, and includes a calendar indicating when each of the 18 Canadian varieties is on the market.

## Federal government backs sales campaign

**A**S cold storages bulge with the remains of 1958's bumper harvest, Canadians are being urged to eat more apples.

At Feb. 1, there were 4,340,000 bushels of apples in cold storage and another 276,000 in common storage. This was roughly 25 per cent of last year's 16,685,000-bushel crop.

Canada Department of Agriculture and the Canadian Horticultural Council have joined forces on a \$25,000 promotional program to increase home consumption. The campaign runs mid-April.

### Holdings Highest

Holdings at the first of February were the highest in five years. At Feb. 1 last year, there were 3,126,000 bushels in cold storage.

Coupled with the big 1958 crop, five per cent higher than the previous year and the third largest in the past decade, exports have been smaller to date due to the loss of an outlet in Continental Europe.

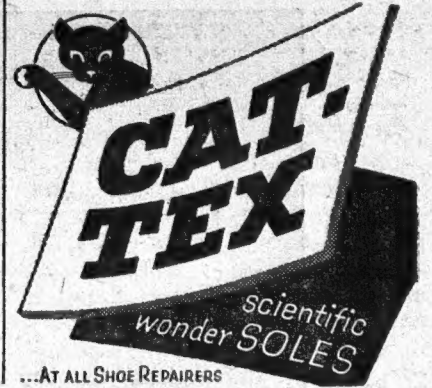
To Feb. 1, exports to the

United Kingdom totalled about 849,000 bushels compared with 667,000 bushels at the same time last year. About 800,000 bushels had been exported to the United States — roughly the same as in 1958.

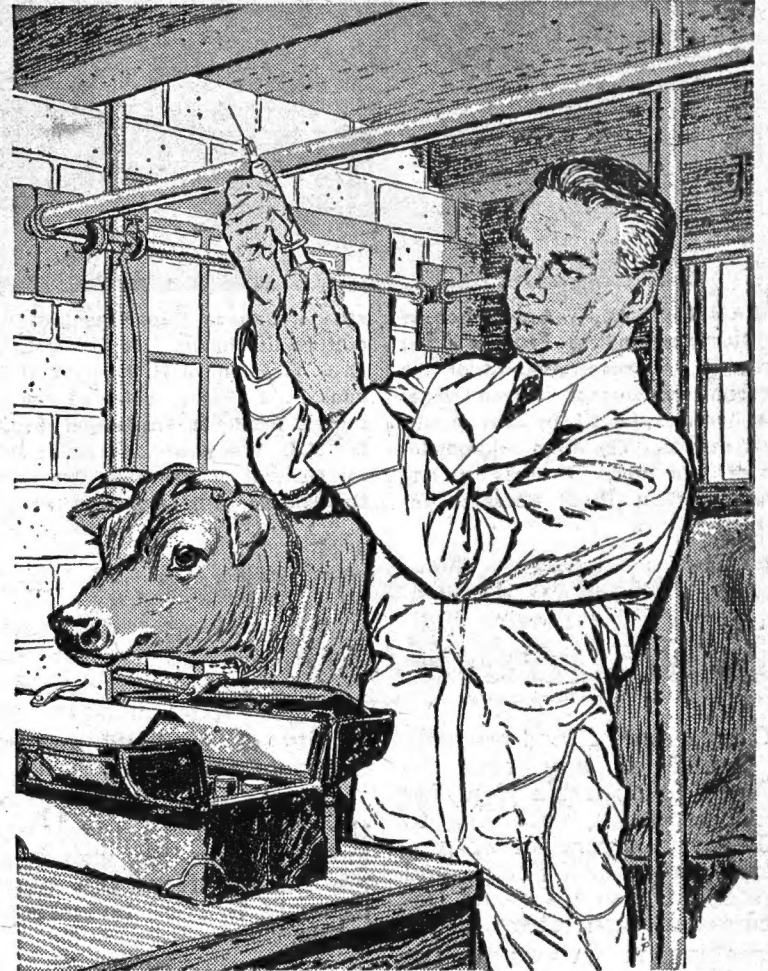
To stimulate consumption of apples and thereby reduce the cold storage holdings, Canadians are encouraged to give them a prominent place in the daily menu.

### More hay from spacing

**T**HE Experimental Farm at Swift Current says that grasses or legumes seeded for hay in the drier prairie regions will yield more for a longer period of years if the spacing between rows is 12 inches, and even more if it is 18 inches. Results from experiments show that yields otherwise are good during the first crop year, but drop off sharply thereafter. The yield from 12-inch rows remained high for about 4 years before declining, and from 18-inch spacing, for 6 to 8 years.



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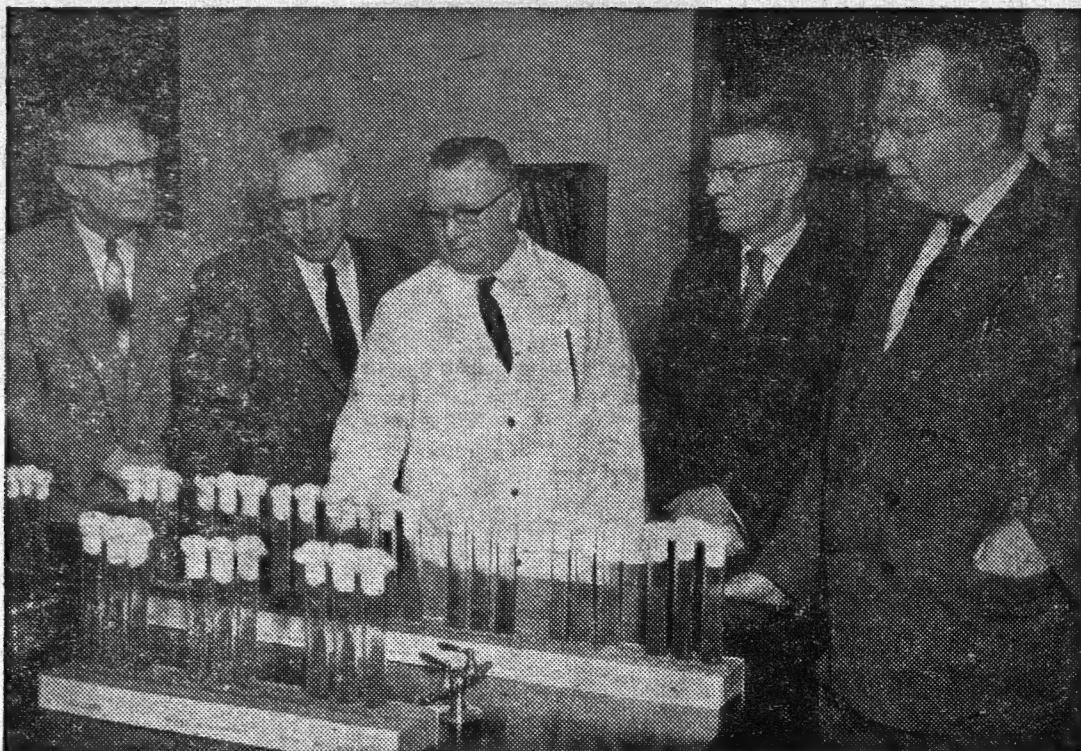
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**SANITATION** — Application of the Burri method to process plant sanitation and determination of the microbial content of frozen vegetables are explained by Dr. A. H. Jones, centre. The food microbiologist of the Food Processing and Storage Section, Plant Research In-

stitute, Canada Department of Agriculture, is shown, left to right, with R. B. Marshall of H. J. Heinz of Canada, F. J. Perry, chief of the Processed Products Inspection Section; Dr. J. C. Woodward, Assistant Director General of Research Branch and Dr. Hinson Hill, Assistant Program

Director (Horticulture Crops). In the test examined here Dr. Jones shows that water alone will not remove organisms from a surface, say a table, but a suitable sanitizing agent will do a clean and thorough job.

## Experts study clean food handling

NO processor of food products should at any time be ashamed to open his plant for public inspection, according to F. J. Perry, supervisor of processed products, Fruit and Vegetable Division, Canada Department of Agriculture.

Speaking in Ottawa at the annual conference of the Canadian Committee on Fruit and Vegetable Preservation, he said clean, sanitary plants improve

quality of products and efficiency of employees.

Mr. Perry outlined some of the things federal inspectors look for when they visit factories, ranging from tidy outside premises to good housekeeping inside.

### Clean Clothes

For instance, he stressed that employees should be provided with clean uniforms or aprons

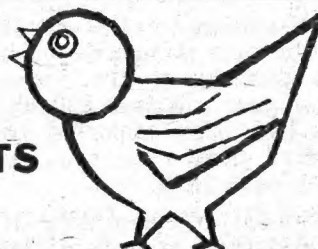
and that female employees should cover their hair with caps or nets. Washing should be compulsory, and dressing and washing rooms provided. Smoking should be prohibited where food is being prepared.

In the early days of the processing industry, Mr. Perry recalled, plant sanitation was literally unknown. Conditions at some plants were "deplorable" Through the years, though, sanitation has been brought to a position of importance.

Summed up Mr. Perry: "It is a true saying that 'good plant sanitation leads to better processed foods.'"

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## Learning by travel

SOME 500 children from 10 Saskatoon schools have travelled to Regina on a one-day educational tour, carried by C.N.R. Railiner.

Visits to the R.C.M.P. barracks, the provincial legislative buildings, Museum of Natural History and the Norman McKenzie Art Gallery are included in the tour. The idea was authorized and encouraged by the Saskatoon School Board in conjunction with the railway.

## Ramsey wheat

RAMSAY was distributed to Manitoba farmers in 1957 to meet an urgent need for a Durum variety that would effectively resist 25B stem rust. Experimental data has shown under rust conditions, it would outyield Mindum and Stewart, but in the absence of rust, it tended to yield lower.

In spite of the yield advantage, farmers are cautioned that the growing of rust-susceptible durum varieties is definitely a risk and should be undertaken only when seeding is carried out at the earliest possible date. The use of phosphate fertilizers is also recommended as a help in assuring earlier maturity.

## Canadian Holstein lines in Argentina

HOLSTEINS shipped from Canada to Argentina have played a big part in improving the breed in that country in recent years. This is indicated by the prominence of animals of Canadian blood lines amongst the group that have just been nominated for consideration as All-Argentina show winners.

In each show class, six animals have been nominated from which an All-Argentina and Reserve All-Argentina winner will be chosen. The three most important classes are those for Aged Bulls, Aged Cows and Senior Get-of-Sire.

In the Aged Bull class, three of the six nominees were bred in Canada and the other three carry Canadian blood lines.

In the Aged Cow class, five nominees carry Canadian blood lines.

Probably the outstanding tribute to Canadian breeding is that the sire of all five groups nominated in the Senior Get-of-Sire Class was bred in Canada.

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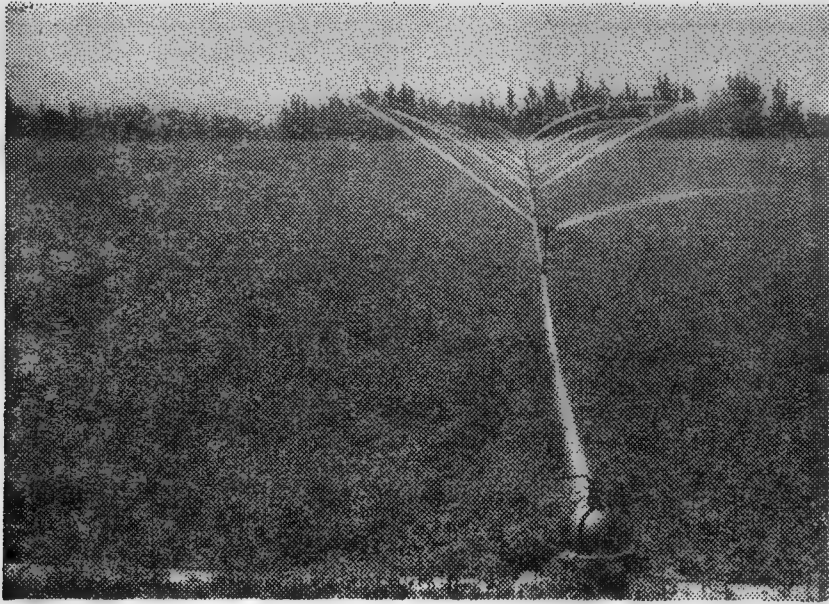


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## Use caution when enlarging sprinkler system

ARE you contemplating changes in your sprinkler system for the 1959 irrigation season? Perhaps you wish to add more sprinklers to serve a larger acreage, or to modify your existing equipment to provide a higher or more uniform rate of water application. Unless provision for future expansion was made in the original design, you would be wise to consider closely the effect such changes can have on the

operation of the irrigation system.

The addition of more sprinkler line will require increased pressure and a larger volume of water. This demand will have to be satisfied by the pumping unit. It is quite possible that the pump will be able to deliver more water at a higher pressure, although it will probably have to operate in a less efficient range. The horsepower required, however, will be increased considerably. Here

E. H. HOBBS

Irrigation Substation, Vauxhall

we have a definite possibility of inducing overloads on the power unit. This may be particularly noticeable in power-take-off driven units because they, due to the extra power required for gearing and belting, have probably less power reserve available. Any misalignment of the power-take-off shafting, either horizontal or vertical, also induces considerably increased stresses. Under overload conditions failure will occur in the weakest part of the power train. The repair costs, although of concern at the time, will be very secondary to the revenue loss resulting from a delayed irrigation schedule and a poorly irrigated crop.

A second problem, and an equally serious one, may arise from the inability of the pumping unit to provide a satisfactory operating pressure throughout the full length of the sprinkler line. This will cause an inferior irrigation, and once again the profits at harvest time will be reduced.

Regardless of what design change you desire, we would strongly urge you to discuss your proposals with your irrigation equipment dealer or other competent adviser. By doing this you can avoid the problems which frequently occur when irrigation systems are altered, and assure yourself of a successful irrigating season.

## Shorter study period

IN comparing 180-day and 305-day tests at the Central Experimental Farm, Ottawa, it was found that dairymen can determine with 90% accuracy how their cows rank, using the shorter time. By taking advantage of the shorter test, it was pointed out, animals could be culled earlier; production certificates would be available sooner; and fewer incomplete records would be processed.

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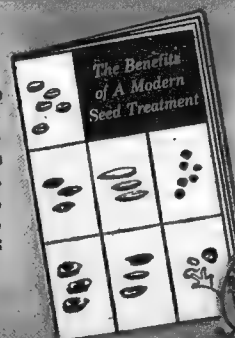
Panogen adheres permanently to the seed coat—imparting a red coloring on most of the seed to show that seed is treated. This assures that treated seed won't be used for feed. Planting can be done almost immediately or the following season . . . and you can expect better stands, healthier plants and bigger yields.

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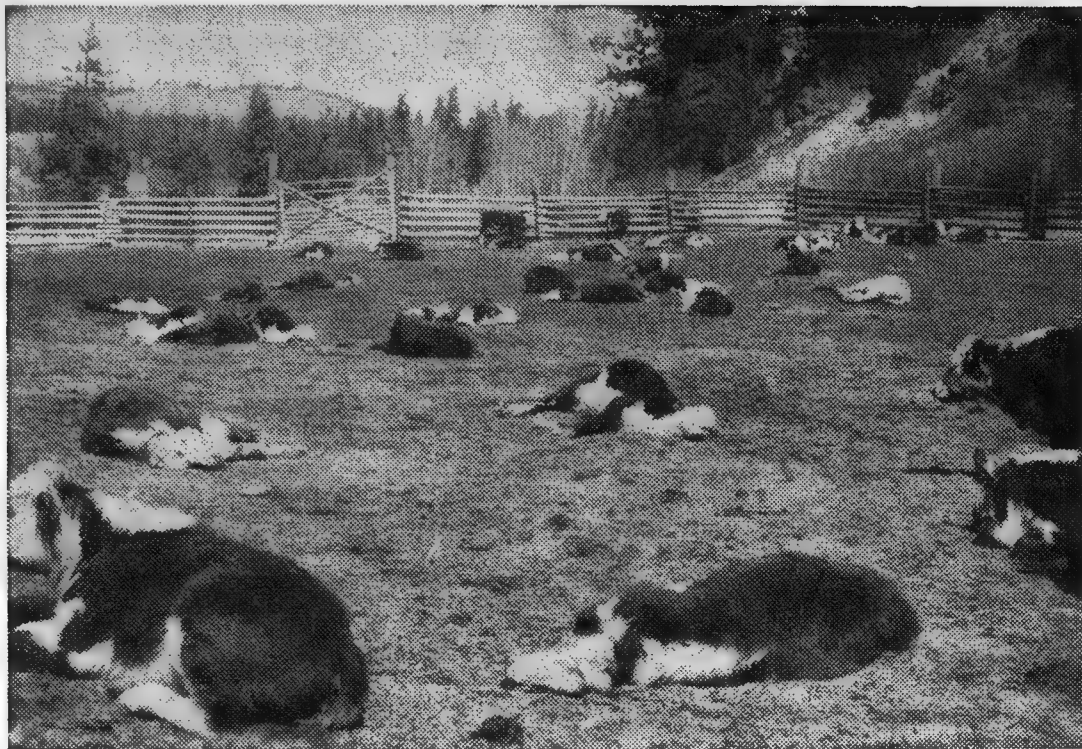
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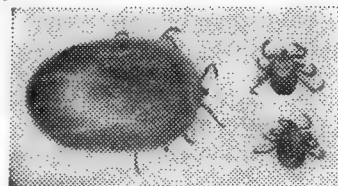


**TICKS PROSTRATE CATTLE** — These cattle are not resting; they have been paralyzed by the Rocky Mountain wood tick shown in the small picture. Of 320 cattle paralyzed by this tick in B.C.'s Nicola Valley in 1957 thirty died. The remainder were saved by removing the ticks from the animals, which usually allows rapid and complete recovery. Presumably paralysis is caused by a toxin.

## The killing Wood Tick

**I**f it isn't one thing it's another, and in British Columbia one of the things at present is the Rocky Mountain wood tick.

This tick is a malevolent little devil with the ability to paralyze



This is the animal that is behind all the trouble. On the upper right is the male and on the lower right is the unengorged female tick. On the left is the female engorged from the blood of her host and which will eventually become little more than a huge sack of eggs.

its victim, (animal or human) with sudden sickening, and often fatal, results.

Over the years in the province there have been a total of 250 recognized tick paralysis cases among humans, with a death total of 28. This is a death rate of more than 10%.

Removal of the tick, in man or beast, usually elicits rapid and complete recovery.

During the Easter season of 1957 a Rocky Mountain wood tick attack on one British Columbia ranch saw 200 cattle suddenly paralyzed. The following day 120 more cattle on the ranch were infected. Naturally all of the ranch's efforts and resources were frantically directed towards safe-guarding a remaining 400 head of cattle. After the laborious job of detaching all of the stricken cattle the ranch escaped with a loss of 30 head. The final result could have been disastrous.

Scientists are, of course, busily engaged in an attempt to discover how the Rocky Mountain wood tick is able to cause paralysis. Research of the subject is also being carried out in other sections of North America, in Australia, Africa and Europe. But so far the case is unsolved.

Dr. J. D. Gregson, who specializes in the study of livestock insects at the Veterinary and Medical Entomology Lab., Kamloops, B.C., in Research for Farmers, Winter Issue, discusses this very dangerous and puzzling bug.

Much of the Canadian wood tick research is carried out at Kamloops since this is the center of an area where the tick appears to produce paralysis more readily than in areas south of the Canadian border, or east of the Rockies.

Climate is thought to have some influence in tick behavior since other ticks (the American dog tick) cause paralysis in the southeastern United States, but do not cause it in Canada.

Since it is known that the continued bites of this tick cause paralysis in man, or livestock, and that with its removal recovery is generally rapid, it is

elementary to assume that the paralyzing agent is poison. To date scientists have been unable to isolate this toxin.

Isolation and analysis of this agent is necessary in order to find an anti-toxin. The discovery of such an anti-toxin could provide a new drug for medical use and would contribute much to the theories of nerve operation.

The Rocky Mountain wood tick does not burrow into its host, but cements itself to its hide where it alternately sucks blood and pumps fluid into the tissues. The paralysis symptoms are believed to be caused by a failure of the animal's nerve impulses, once attacked, to reach their respective muscles.

Recently it has been found that wild ground-hogs and laboratory guinea pigs can also be paralyzed. This adds a new series of susceptible hosts available for experimental study.

Dr. Gregson says: "The artificial rearing of ticks for year-around study has revealed another problem; laboratory raised adult ticks appear to be unable to feed with the same facility as natural ones. They eagerly attach themselves to the host, but seem unable to engorge as readily as 'wild ticks'. This has led us to suspect, again, that climate plays some vital part in the 'conditioning' of ticks for their normal two months of spring activity and may even play a part in the varying powers of the tick to produce paralysis. Thus laboratory studies are carried back to the field and we find ourselves implicated with observations of tick habitats, and also with rodents since the tick feeds on small animals during its two young stages.

Field studies are related directly to tick control, which is of primary interest to the rancher. Modern insecticides (acaricides in the case of tick control) have greatly advanced the methods of chemical control since the days of treating animals with creosote, lard and crankcase oil. The best of the modern chemicals is benzene hexachloride and a spray of Ortho W 10 BHC, applied at the rate of 4 ounces per gallon of water to the head and shoulders has been found to protect cattle from the Rocky Mountain wood tick. Other materials will kill attached ticks. Dieldrin, one pound per acre, will kill ticks on vegetation.

Complete elimination of ticks from an area, however, is difficult. For example, by marking ticks in nature with paint, we have found that about 8 per cent of one season's adults which have failed to find a host will remain dormant after their period of spring activity and will reappear the following spring.

Because of this, and the fact that the shortest period from egg to maturity is two years in nature, it is clear that control

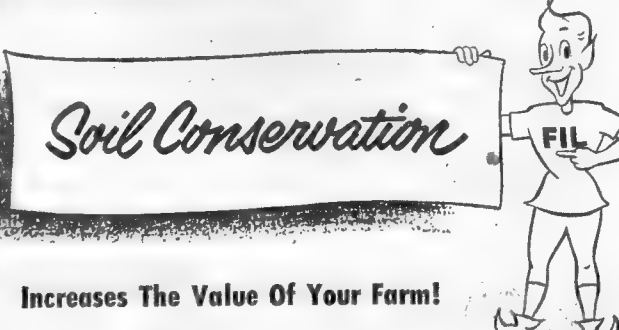


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measures will not bring about immediate results. And because wild life plays an important part in the life of the tick, there is likely to be a residual population where ground cover permits the existence of rodents. So, to control ticks in the field, ranchers are urged to deliberately pasture the area with cattle which have been adequately sprayed. Not only will the available grasses be utilized and the rodent population thus reduced, but most adult ticks in the area covered by the treated cattle will be picked up and killed by the insecticide in the hair.

These observations, together with the discovery that the tick population in a given locality may gradually increase or decrease, seemingly from factors that have involved the feeding and disposition of adult ticks, lend encouragement to the belief that tick populations can be effectively suppressed by control measures.

### Directions important

**T**HE Veterinary Laboratory of the Alberta Department of Agriculture has issued a warning regarding the use of iron injections for anaemia in baby pigs. There are several injectable iron products on the market now, but these vary in available iron content and in recommendations regarding "follow up" injections.

Many farmers are using one injection of low iron content products that call for repeated injections. They do this because they think they are giving a high iron content product that calls for only one or at the most two injections.

As a result of this confusion, baby pigs are dying from anaemia or other diseases fostered by anemia. Much of this could be avoided by reading the labels on the product or consulting the local veterinarian.

### Seed treatment important

**S**EED treatment should not be neglected when preparing for spring planting. It is the cheapest form of crop protection that a farmer can buy, say crop specialists. For the small sum of about 10 cents per acre he can protect his crop against seed-borne diseases, prevent seed rot, seedling blight and also ensure more uniform germination.

A good job of seed treatment can be done on the farm and municipal seed cleaning plants are well equipped to treat seed at low cost.

There are various mercurial dressings available for all grains. Non-mercurials can be used for bunt on wheat and one type, orthocide, is approved for flax. Formaldehyde is not recommended for treating grain because it reduces germination.

### Tamer for wild oats?

**A** PROMISING chemical for wild oat control is receiving attention at several agricultural research centres across the prairies. A post emergence control labelled S-847, it was tested at the Laeombe Experimental Farm last year.

An 80 per cent control of wild oats in the wheat crop with application of one-half pound only of active material per acre is reported. More than this resulted in delayed maturity, an indication that wheat is not entirely immune to damage. Wheat, flax and barley appear much more tolerant than cultivated oats.

Water is the spray medium, and one-half pound of S-847 in five gallons of water has proved best so far. Higher volumes of water produced less crop damage but resulted in lower effectiveness of the chemical. Experiments are far from complete, however, and the work continues.

Tests are proceeding in the greenhouse to decide best rates of application, volume of water and stage of growth. Field tests last spring indicated the best time to treat the wild oats was in the two-leaf stage. Plans for the coming season in Alberta include a co-operative testing program involving all Experimental Farms in the province and the Department of Plant Science at the University. Work is also proceeding at Experimental Farms across the prairies.

S-847 is the most promising post emergence control for wild oats that has yet appeared, it is said. It is not yet available commercially, but if future tests support present indications it should prove a valuable aid. It is not one of those chemicals that will be too expensive for field use, and if its value is established, prices are expected to be sufficiently low to warrant its use.

### Ladak alfalfa best by test

**U**SE of a recommended variety can greatly improve production per acre. Alfalfa variety tests at the Experimental Farm, Brandon, have shown that Ladak alfalfa is superior in yield, more successful in competing against weed invasion and maintains a better stand than such varieties as Rhizoma, Grimm and the French variety Du Puits.

In an alfalfa test established in 1951 and harvested for hay each year from 1952 to 1958 Ladak has been the outstanding variety. In the first year, 1952, Ladak yielded 4.0 tons, Rhizoma 3.4, Grimm 3.1 tons and Du Puits 2.8 tons of dry matter per acre. The average yields for the first four years were: Ladak 4.0, Rhizoma 3.6, Grimm 3.4 and Du Puits 3.2 tons. At the end of 1958, after seven

years of production, the average yield for each variety was: Ladak 3.7, Rhizoma 3.1, Grimm 2.9 and Du Puits 2.7 tons.

The stand of Ladak in 1958 was still good. Weed invasion has become a problem in plots of the other varieties. Stands

of Grimm and Du Puits have been extremely patchy for the last two years, and stands of Rhizoma were becoming invaded by weeds.

Complete information on forage crop recommendations can be obtained from your Agricultural Representative,



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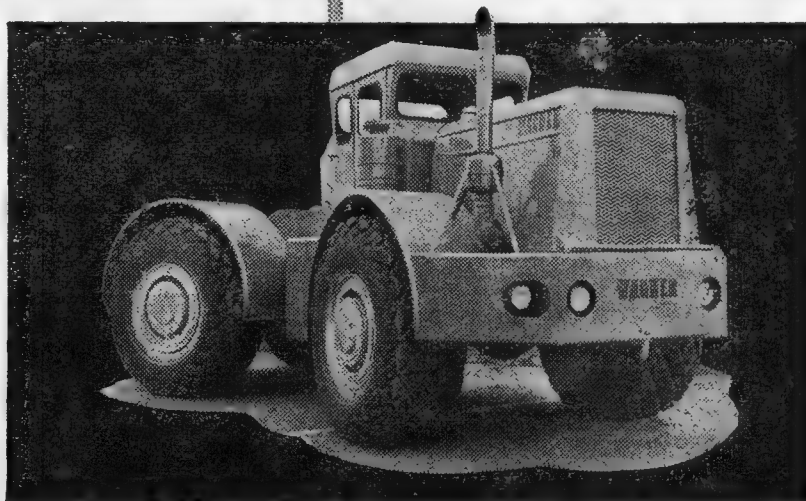
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# The Cat-Owls

By Kerry Wood

ONE early morning a farm lady phoned me to describe a great horned owl which was perched on a poplar tree near her poultry run. She had not yet released the chickens from their coop, and wanted to know if the powerful looking wild bird would do them harm. What could I say, but yes? This was qualified with the information that in the wilderness, great horned owls are useful and interesting members of Canada's fauna that prey mostly upon rabbits and mice.

"Well, something's been killing our chickens," the lady protested. "We've lost five during the last two weeks, before I started shutting them in nights. And I've seen this big owl perched near the run, almost every morning at dawn."

She was asked to relay the description again, because there is a perfectly harmless bird that sports feather-horns called the long-eared owl. The small mouser known as the screech owl also wears horns. Then there is the short-eared owl, a large looking owl that devotes

ninety per cent of its hunting time to catching destructive field mice. But there could be no mistake about the bird waiting above the lady's poultry yard: a chunkily large owl around twenty inches long, with a round cat-like head topped with two prominent feather horns.

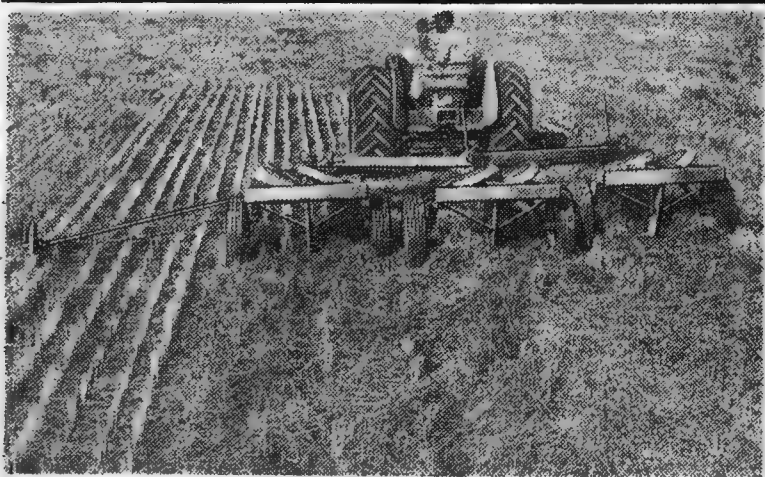
"I better shoot it," she decided. "I've tried to shoo it away, but it won't leave. And it's time the chickens were let out."

I'm very much on the side of our greatly misunderstood predators, both furred and feathered. Yet when the lady put it to me straight: would the owl kill any of her chickens if she turned them loose while it was hovering near, a truthful answer had to be given. So she killed it, and when I wrote about the incident in one of my newspaper columns, I was severely censored by conservationists all over my home province. Most of them claimed that great horned owls never touch farm poultry and dine almost exclusively upon rabbits—which can be most destructive



The young owl is mostly eyes, fluff and beak, but when he prepares to defend himself he presents a formidable appearance.

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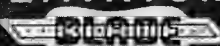
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during peak number periods.

In a wilderness area, I'm quite convinced that great horned owls deserve protection. Furthermore, throughout most of our settled farmlands, probably eighty per cent of the cat-owls prey largely upon vermin. But there are exceptions. Wherever rabbits are scarce and mice protected by deep snows of winter, there are occasions when great horned owls invade farmyards to take a toll of chickens and turkeys. Who can blame a farmer for destroying a killer-owl after he has proof about its poultry raids?

Yet I am still on the conservationists' side regarding the worth of these fascinating night hunters. They have intriguing habits, not the least publicized of these being a tendency to swoop silently out of the night woods and snatch a man's hat or cap from his head. If a man happens to be bare headed, you can imagine his howl of anguish as needle-sharp talons rake a red furrow through his scalp.

When I was a teen-ager, one owl made a regular practise of swooping at my cap every time I walked a certain woodland path. It frightened me at first, then angered me when talons drew blood. So a fur-covered board was attached to a long string, then placed on the path where the owl's attacks had happened. When Bubba alighted on a nearby stump at dusk, I pulled the string to jiggle the furry stick and dance it along the path. Down swooped the bird, slamming into the stick but dropping it as soon as talons

felt the lifeless wood. Three times it struck at the moving decoy during the next hour, on the last occasion hanging on for a moment to give me a chance to yank the tight string and tumble the bird head-over-heels in mid-air. From then on, it avoided my trail through the woodlands.

Such owls were superstitiously feared by Indians of old, while one such head-attacker terrorized a Quebec sawmill camp for half a winter and won for itself headlines in papers across Canada. Such owls are merely hungry birds, apparently convinced that anything that moves must be alive and therefore edible. I once watched a great horned owl flying in lovely silhouette against a red sunset, when it happened to pass near a slumbering horse as the animal gave its tail a twitch. Instantly the owl swooped and sank talons into the horse's rump. Dobbin squealed and bucked and bolted; the owl let go and flew off — probably to brag about the size of the one that got away!

Rabbits and mice make up the bulk of a great horned owl's diet, though I've seen one snatch a swimming muskrat from a creek and on three different occasions have witnessed owl attacks on skunks. Often the skunks spray the owls during throes, but the birds don't seem to mind the horrible stench. Such birds also catch flying squirrels, bats, weasels, even frogs at times. There are several authentic records of horned owls perching near lake



or river shallows during the early evening, where they may capture surface swimming fish.

A mother owl is a brave bird. She'll actually attack a human in defence of eggs or fuzzy young. When owlets are large enough to perch securely on a branch, the mother tugs apart the nest she built so carefully a short time ago. Naturalists have a theory that the mother destroys the nest because its bulky outline attracts unwelcome attention from enemies and thus endangers the young family.

As winter wanes the owl mating season starts, and a harsh, cacophonous screech is part of a great horned owl's love-song. It has been likened to the squeal of an angry horse, though it is much deeper in tone and fearfully impressive as it squalls out of a spruce tree when you're taking a stroll on a March evening.

Finally, please don't shoot an owl unless you have absolute proof that it is a great horned owl who is killing your poultry. Most members of the night-bird family are extremely beneficial, especially the trusting short-eared birds that perch on fence posts near sloughs. They are among the best mousers in birdland, each one killing hundreds of field-mice per year. The majority of great horned owls are economically valuable to farmers for controlling rabbit plagues, mouse infestations, and destructive Norway rats. In addition, they are among the most beautiful and picturesque of all the night hunters.

### Lambing

THE most critical period in the sheepman's year is now upon us. A successful lambing will mean profits at the end of the year. High losses at lambing will result in low or maybe no profits.

Are your ewes in the best condition for lambing? Proper rations will help a great deal. Oats at one-half to one pound per day per ewe will strengthen and condition the ewes for their important job. Give the ewes access to bonemeal or other phosphorus calcium supplement to ensure an ample milk flow. Bonemeal is often in short supply at this time. However, Dicalcium phosphate is often available and while it does not seem to be as palatable will still be satisfactory. Cattle range pellets high in minerals are also a satisfactory replacement for bonemeal though it may be more costly.

If you still have the time, crutching the ewes at least 2 to 3 weeks before lambing will cut down on the labour required at that time.

Did you check all your lambing equipment since it was last used? Panels, claiming pens, and all other equipment may still be repaired at leisure now rather than a hurried patch-up job later. Ear tags, tattoo equip-

ment, marking paint should be checked and the necessary supplies ordered. Incidentally when you are writing an order to your supplier you might just as well order your shearing supplies as well.

Officials at the Swift Current Experimental Farm report:

"We just checked our sheep shed medicine cupboard. We've ordered 5 per cent tincture of iodine for treating the navel cord of lambs. A few tubes of penicillin or aureomycin preparations for the treatment of mastitis or blue bag will often save a lamb or two as well as some ewes if they are on hand and are used early, as soon as symptoms are noticed.

"The lambing season is always busy and rushed. Being prepared is our best insurance against losses that can be avoided."

### Malting barleys

THE Brewing and Malting Barley Research Institute announces that extensive pilot plant testing and commercial brewing trials in Western and Eastern Canada have indicated that Parkland barley is acceptable to the Canadian brewing industry.

The high quality reputation of Canadian malts has been attained by blending malt of several varieties. Consequently a start will now be made to

introduce Parkland to these blends.

Therefore, while Parkland has been added to the list of acceptable varieties it is emphasized that good quality Montcalm and Olli will be required to form a large proportion of the 1959-60 purchases of malting barley.

### New aid in Manitoba

A PROGRAM designed to increase government aid to Manitoba will be high-lighted by a two-million-dollar research program at the University of Manitoba, the provincial minister of agriculture has announced. There are many things, he believes, that can be done to improve agriculture within provincial jurisdiction.



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Farming is never routine. That's why you teach your son the things you learned the hard way; such things as selective breeding, crop rotation, soil conservation, keeping records... and equally important, the wisdom of building a cash reserve through regular saving.

And here is another suggestion you can pass along to him now... an idea from which he will reap solid benefits as the years go by. Encourage him to get acquainted with his local Royal Bank manager so that he may learn at first hand of the many ways in which the bank can work with him in shaping his own successful future.

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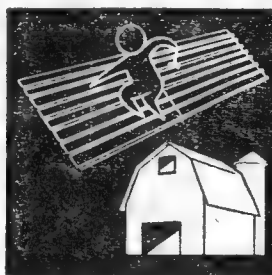


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Give the little ones a pet they can keep. Puppies and kittens don't go to market, and they can remain as friends until the youngsters are mature enough to understand the necessity of marketing of young pigs, calves and lambs.

## Picked Up In Passing—

by INA BRUNS

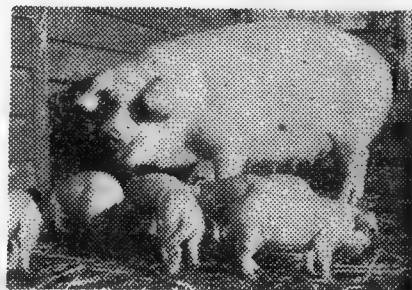
A FARMER who is the father of an emotional little girl advises parents of young children to consider his experience before presenting such children with a farm animal that must sooner or later be marketed or slaughtered.

"I don't know why I thought our youngster could rationalize the slaughter of her beloved pet when many adults never learn to be philosophical about this business," he says. "When the butcher came out from town and killed the pet pig, she collapsed and was under a doctor's care for some time."

Other people we have talked to admit they suffered similar heartbreak as youngsters. A man told us that lifelong misunderstanding with his father stemmed from just such an unfortunate incident. A woman who has never eaten beef, told us she has never forgotten the day she returned home from school to find the head of her pet calf in the barn door.

"Adults forget that children have vivid imaginations and this coupled with the endearing qualities of "personality" that all farm animals possess, make such pets every bit as beloved as a close relative. Parents should

give the wee ones dogs or cats until they can get hardened in to the grim business of killing." this woman declares.



YET another complaint has been voiced concerning techniques used to beautify animals for the show ring. A shipment of pure-bred hogs brought in from a distant point with their resistance lowered by the stress of the long trip, were scrubbed with cold water—the only water available at the auction mart! While the effects of such handling did not reveal itself to the examiners, buyers who trucked the animals home were soon faced with serious trouble. To date we know of one boar and one gilt that died as a result of this treatment. Every care and drug was administered to fight the lung condition in the gilt,



but she died leaving the owner with seven orphan piglets.

Luckily the sow lived long enough to provide the much needed colostrum and the farmer knew that the infants could be successfully raised with five or six feedings daily of cow's milk during the first weeks and a three-time-a-day feeding after three weeks of age. A recommended pig starter, iron and cod liver oil are all factors in the successful hand feeding of piglets. A supply of fresh water is also necessary to their well being.

**B**EING in contact with some of the country's most successful farmers, we are frequently asked what factors the progressive men have in common. Here are a few of the similarities we most frequently note:

1. The successful farmer invariably has a wife who shares



his interest in the agricultural venture.

2. They know where they have been and where they are going by the records they keep. We also note the best stockmen have barnyard scales used to evaluate different feeding programs and also performance of individuals.

3. They all own well-worn manure spreaders — frequently two of them!

4. They watch the cost in man-hours as closely as they watch other costs and they cut lost labour in every way possible.

**A** CATTLEMAN who takes great pride in his blooded stock laments that his neighbor allows a scrub bull to roam at large.

"That bull, which is a cross between a tail-end Shorthorn and a nondescript Jersey hasn't much to offer in beef-type. He does have the dubious assets of being able to scale any barricade I throw up to discourage his visits, he can outrun his pursuers and he is a sure breeder — I've got two of his calves in my herd to prove that! When the owner of this animal wanted to change 'sires' he simply inserted an ad in the paper and bar-

gain seekers came calling with cash in hand!"

In spite of all the efforts agricultural science has made to



educate farmers against such false economy, they're still doing it! We haven't the figures on this situation in Canada, but according to Hilton M. Briggs, in Modern Breeds of Livestock, only about 3% of all sires used in United States were purebred even as late as 1945!

**T**HE Jones boys who always reap enormous yields of grain on the good years, and above average on the bad ones, tell us that their secret is simply that of being "deep-down" farmers.

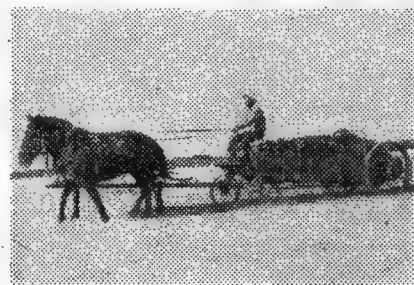
"When we were kids," they explain, "we saw Dad take prizes with his thick-as-your-arm carrots and produce fence-high crops year after year. He be-



lieved in deep and frequent cultivation."

"Across the road from us was a neighbor who 'scalp-farmed' his land and reaped sickly crops that competed with weeds while his carrots were of the match-stick variety. We haven't seen a good substitute for deep farming yet!"

The Jones boys aren't alone in their belief that deep cultivation brings heavy yields. An English farmer who produced 131½ bushels of wheat per acre, disced his land three times, plowed it 14 inches deep in October, and disced it again before seeding the crop in November!



**T**HE Flemish folks put it this way: without forage no cattle; without cattle no manure; without manure no crops.

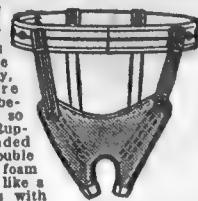
Over ninety centuries ago when farmers aerated their soil with sharpened sticks, they noted the benefit grass derived from natural fertilizer and they soon took advantage of this observation to boost crop yield.

Although science has done amazing work with commercial fertilizers, and although chemical salts may boost crop yields even more than applications of manure, still science knows that over a long period of use such salts may alter the soil so that it may become infertile. The by-product of the barnyard is still a superior crop booster.

But few farmers receive full  
(Continued on page 18)

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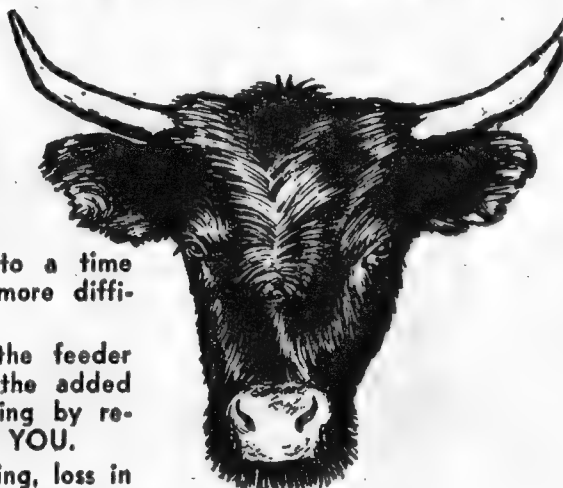
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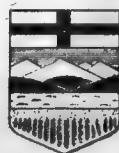
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| 3. Two to three months | Tube dehorner or knife and caustic pencil |
| 4. Three to six months | Calf size dehorner                        |

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Hon. L. C. Halmrast  
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Deputy Minister



(Continued from page 17)

spread over their land because so much loss of valuable agents occurs when manure is leached by heavy rains — losses that may exceed 50%! About the only way the average farmer can avoid such losses is to spread the manure as soon as possible and work it into the land before it dries out.

While it is almost impossible to estimate the value of manure in dollars and cents, the following table can offer some guidance to farmers:

Cow	\$2.50 per ton
Hog	2.75 per ton
Horse	3.10 per ton
Sheep	4.50 per ton
Poultry	4.55 per ton



**TROUBLED** with navel ruptures in piglets? Parent stock is said to carry the gene

responsible for this condition. If neglected, the animal may consume a great amount of feed only to die before being marketed. Surgery can be costly, and resulting shock from such operations sets the youngsters back. If caught in the beginning, a miraculous cure can result from a few minutes' work and a few inches of adhesive tape.

Place the piglet between the knees of a helper, belly up. Make a deep "wrinkle" across the navel so that weakened tissue will be drawn together. Strap the piece of 1½-inch tape across this "wrinkle" so that the damaged area will be given a chance to heal. For added strength, put a longer piece of tape over the first piece, allowing it to reach well up on the animal's sides. Allow the tape to remain in position for about a week, checking it frequently to make certain it doesn't become too tight on the rapidly growing youngster. Without set-back, another porker can be seen off to market.

**THERE** are three kinds of people in the world: those who like goats, those who do not like goats and those who know little or nothing about goats. Of the three groups most of us fall into the third category, but a visit to



any fair that boasts a goat exhibit will also boast numerous goat fanciers who are only too willing to laud the praises of their chin-whiskered friends.

Breeders will tell one that goats are very clean animals, that they are most intelligent, sweet-natured and that they give superior milk.

Actually, goat's milk does not differ greatly from the composition of cow's milk. The real

difference is that the goat's milk is made up of very small fat globules which gives it a "naturally homogenized" quality. The casin is reputed to have a softer curd which is easier to digest.

Cow's milk contains:

12.8%	dry matter
3.5%	protein
3.7%	fat
4.9%	nitrogen-free extract
0.7%	mineral

Goat's milk contains:

12.8	dry matter
3.7%	protein
4.1%	fat
4.2%	nitrogen-free extract
0.8%	mineral

**CROPS** produced on summer-fallow are expensive at best, but when cutworms move in to sweep the fields clean of all growth, the failure is a costly one indeed.

Experts tell us that the threat is a very real one again this year, but even if rain failed to fall on that summerfallow after the first of August to form that protective crust that prevents

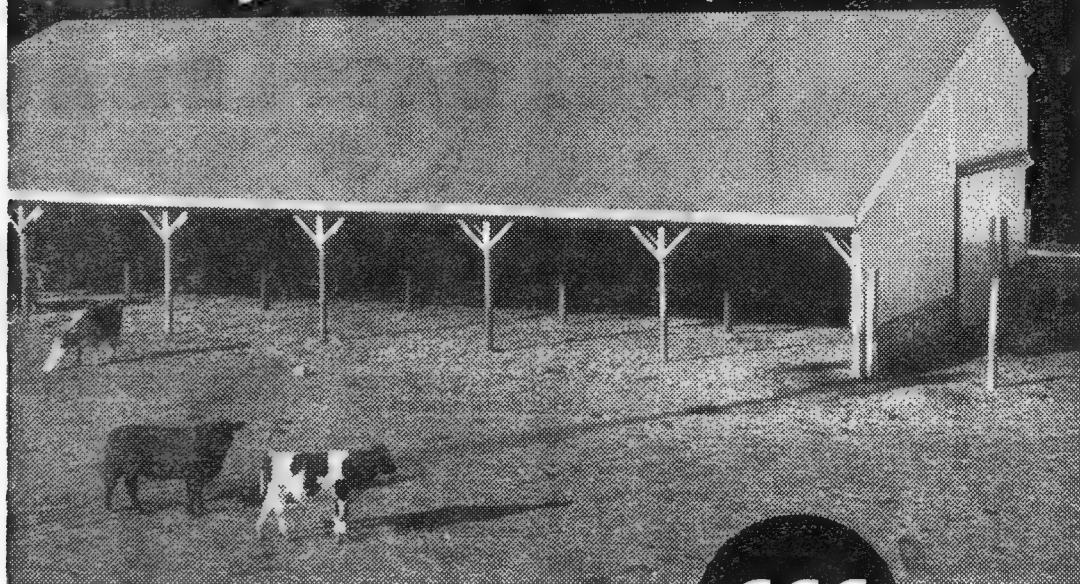


the female moth from depositing her eggs, the farmer can still rid his land of the pests if he understands the nature of the worms and starves them to death.

Cutworms hatch about the time the frost is out of the ground to a depth of two inches. The young worms go without nourishment until weeds supply food. The trick is to allow the greenery to grow until it is two or three inches high. Once the worms can be coaxed to eat and to start growing, they cannot return to living without food and they are much easier killed by starvation. If the farmer works his land too soon, their fast is never broken so they continue to live on waiting around for the crop to come up.

And a warning here about stinkweed. Stinkweed stays green all winter and should never be taken as an indication to begin cultivation. Cutworms don't break their fast on anything as unpalatable as stinkweed!

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## New exporters complicate disposal of surplus wheat

No Incentive Offered to Eat More Bread, Claims Expert.



FRANK SHEFRIN, foreign expert in the economics division, has analyzed the world wheat position for the Canada Department of Agriculture. Mr. Shefrin was on loan to FAO headquarters in Rome as chief of the section on demand and prices. Last fall he was a member of the Canadian delegation attending the first session of a U.N. conference on wheat in relation to the renewal of the International Wheat Agreement. He recently completed a study of national grain policies in 23 countries as a basis for his article in the publication "Agriculture Abroad".

WORLD wheat production reached a record level of 8.7 billion bushels last year, mainly because of bumper crops in the United States, Soviet Russia and Mainland China. This was 43 per cent above pre-war production.

Mr. Shefrin, points out that the increase was not accidental or unexpected. Higher acreage and yield contributed equally to the post-war upswing, with favorable weather, advanced technology, better farming practices and government policies all playing a part.

In the most comprehensive report on the world wheat situation to be published for some time, Mr. Shefrin says that world trade and consumption have not kept pace with production.

Since World War II, production in the importing countries has risen more rapidly than the increase in imports. As a result, stocks of wheat held by the four major exporters may reach an all-time high of two billion bushels by the end of the 1958-59 crop year.

All three sectors of the grain economy — production, consumption and trade — have been increasingly subjected to government intervention or control.

Grain price policies of most countries with such major exceptions as Canada and Australia continue to provide incentives for increased production.

This is particularly the case in countries like Italy, Belgium and Spain, normally importers, which are now entering the export market.

There are indications of a growing awareness of the need for some modification. Many governments have been encouraging their farmers to shift out of wheat into coarse grain production. On the whole, however, while policy adjustments continue a step in the right direction, the step is hesitant and wavering.

Although several importing countries still subsidize the price of bread to compensate for high support prices, there is no broad national program having as its objective an expansion of wheat consumption.

The grain policies of importing countries do not allow their national consumers to benefit from lower foreign prices and this, in turn, contributes to a reduced demand. At the same time, producers in these importing countries are protected from the competitive impact of lower priced grains from abroad.

Impact of policies of exporting countries is felt mainly by the producers of other exporting countries. Mainenance of prices to domestic producers at a level above the world market often involves such special foreign trade measures as export subsidies, sales at concessional terms, sales for local currency, barter and grants.

To the extent that these measures result in lower export prices and take markets from traditional suppliers, reduced returns to producers in other exporting countries will occur.

Furthermore, the means used for surplus disposal to bridge the gap between potential and effective demand may lead to the hardening of regulated patterns of trade, which cause marketing difficulties among competing exporting countries.

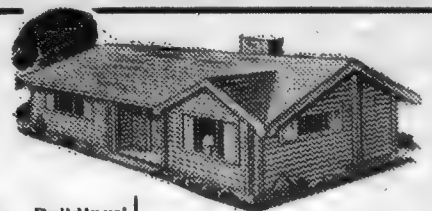
Under present circumstances, as long as the majority of importers maintain a comprehensive system of protection to encourage production, the cost of any adjustment in the demand-supply position falls primarily on the exporting countries.

Copies of "Agriculture Abroad" are available at Economics Division, Canada Department of Agriculture, Ottawa, Ont.

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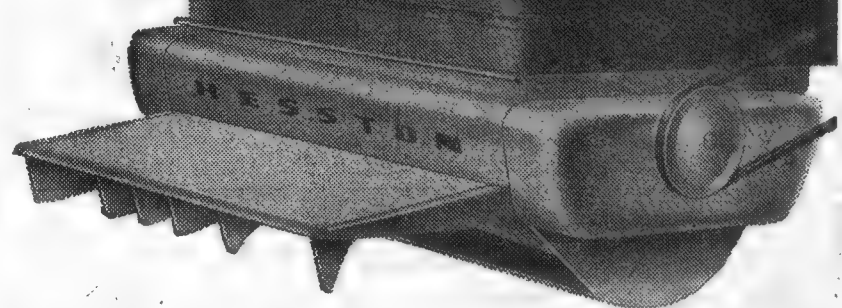
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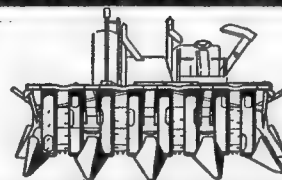
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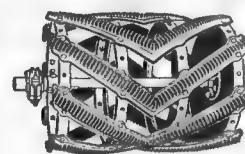
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# Livestock minerals

Johnny needs his spinach for iron . . . but your livestock need a lot more than that.

Let's just step back a few paces and take a good general look at this whole picture of mineral requirements.

ANYONE whose stock has come down with a bad case of goitre, anaemia or rickets needs no reminding that minerals are among the essential nutrients required by livestock. Failure to receive these requirements might easily lead to any number of disorders, depending on which mineral is deficient . . . and certainly to a loss of gain and a corresponding loss of profits.

Of the numerous minerals known to be essential for livestock, many are present in the usual feeds in ample amounts, and only six minerals may re-

quire special attention for cattle and sheep, and eight for swine. These are calcium, phosphorus, sodium, chlorine, iodine, cobalt, and the two additional ones for swine being iron and zinc.

These minerals are not found in sufficient quantities in the home-grown feeds to meet the requirements of the animals, so must be supplemented to the ration if our animals are expected to perform to maximum efficiency.

Calcium and phosphorous are the main mineral constituents of bone and teeth, and the demand for them is very great



Farm and Ranch Review photo.

Feeding the livestock salt and iodine is fairly simple—either in the pasture or the feedlot. A block of iodized salt left handy for self-service like this one at one end of the feed box.

during growth and in pregnancy to provide for the manufacture of new bony structures. Since milk is very rich in both calcium and phosphorous, larger quantities of both are required during lactation.

Insufficient supplies of either or both of these minerals will cause defects in bones and could lead to rickets and eventual growth slow-down in calves and weakened bones in adult animals. Serious phosphorous shortages in rations give rise to some other characteristic effects. Appetite is decreased and as the deficiency progresses, the animals may show a depraved appetite which causes them to chew bones, wood, or dirt.

Calcium and phosphorus are supplied by supplements of bone meal, dicalcium phosphate, and deflourinated rock phosphates. Limestone provides calcium only. The best procedure is to blend the supplements with salt and to allow the animals free access to the mineral mixture in a separate covered box for cattle and sheep, and to mix a definite proportion (1 to 2 per cent) with the home-mixed concentrate for swine. A satisfactory mineral mix for cattle and sheep is 65 lbs. of bonemeal, 5

lbs. ground limestone and 30 lbs. of cobalt iodized salt. For swine, the mineral mix should contain around 50 lbs. of ground limestone, 25 lbs. of bonemeal and 25 lbs. of cobalt iodized salt. Sometimes these ingredients aren't too readily available and commercially prepared mineral mixes can be purchased from the local feed dealer.

Common salt (sodium chloride) is an important requirement of livestock. It performs many functions in the body in addition to acting as a condiment, improving the palatability of other feeds and supplements and stimulating appetite.

Iodine, although required in very small amounts, is a very vital mineral, and is essential for the activity of the thyroid gland which is the master control for all body processes. Deficiency of iodine leads to goitre or thick-neck, particularly evident in calves, and can lead to the birth of calves or little pigs which are weak or dead as well as goitrous. A supplement is recommended for Saskatchewan feeding conditions, and the most convenient and satisfactory procedure is the use of iodized salt.

Within recent years, it has been found that crops in some

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areas are low in cobalt, and cattle feeding on them may not receive enough of this mineral unless a supplement is fed. A deficiency leads to unthrifty, listless animals which show gradual loss of appetite, weight loss, rough coat and anemia. A depraved appetite similar to that of phosphorous deficiency may develop and reproduction troubles may be encountered.

The small amount of supplementary cobalt required can be best supplied in the form of cobaltized salt.

The iodized and cobaltized salt may be mixed with concentrates and with other minerals, as well as supplied separately, particularly for cattle and sheep, as these animals will not eat enough of the mineral mix to satisfy their need for salt. It is preferable to place the salt in a box which protects it from the weather.

The two other minerals necessary for swine are iron and zinc. Iron is necessary for the production of red blood cells and a shortage leads to nutritional anemia which can be a very serious problem in nursing pigs. Anemic pigs are pale, listless and subject to conditions such as thumps and digestive upsets. Anemia may be prevented by supplying supplementary iron to the pigs. It may be fed as a powder form by using reduced iron or ferrous sulphate, giving each pig the amount equal to that of an aspirin tablet for each dose. This should be fed to little pigs when they are two or three days old with three or four further treatments at weekly intervals. New chemicals can be injected into the ham of the pig by means of a hypodermic syringe and have the advantage of only one treatment, and also a positive treatment giving the pig the exact amount that it requires.

Zinc is necessary to prevent a condition known as parakeratosis, which is a scurviness or mange-like condition in pigs. The addition of a small amount of zinc to the ration will prevent this disease.

Minerals do play a very important role in livestock nutrition and can be given to farm animals quite easily and quite cheaply, but many livestock producers fail to realize their importance until they have encountered considerable losses of both animals and profit.

### Feeding in Denmark

DENMARK has introduced the system of feed demonstration farms, both for cows and pigs, according to "Pig Farming", published in Ipswich, England. The farms are run on commercial lines, but the rations are carefully compiled by feeding experts and put under test. The results are then made known in printed form to the many thousands of fellow farmers who visit these farms every year.

Danish farmers have no great interest in early weaning; they cannot see any advantage to it under their conditions and, in general, they wean their pigs at about 56 days. Most of them mix their own rations. Skim milk is little used on commercial farms because of its high price. In its place a simple protein mixture of two-thirds soya meal and one-third meat-and-bone meal is fed, plus minerals (ground limestone and common salt). The cereal ration is mostly barley but it varies according to the price and availability of grain. In Denmark they feed strictly according to the weight of the animal and have no use for self-feeding which they consider wasteful.

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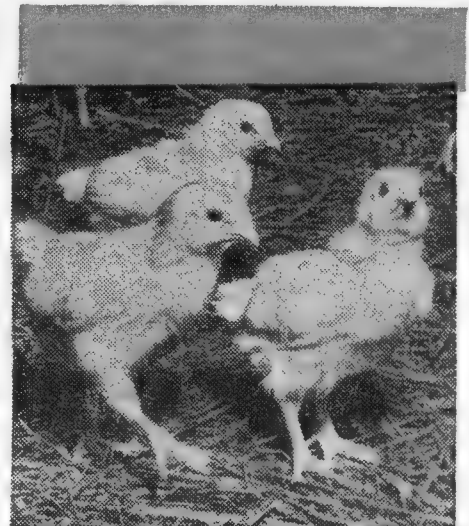
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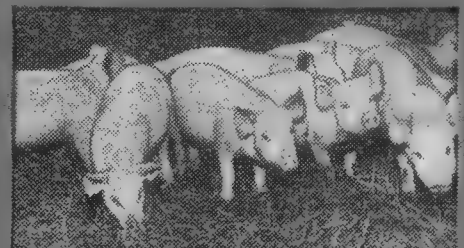
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## Life in the Old West

IT was the year 1893 and my father, Harry Burton, a young English lad in his late teens, was heading into the mountains of the Lilloet district to hunt for a large grizzly bear that was killing the ranchers' cattle. There was a reward of \$30.00 offered to anyone who killed the grizzly and Harry needed that thirty dollars.

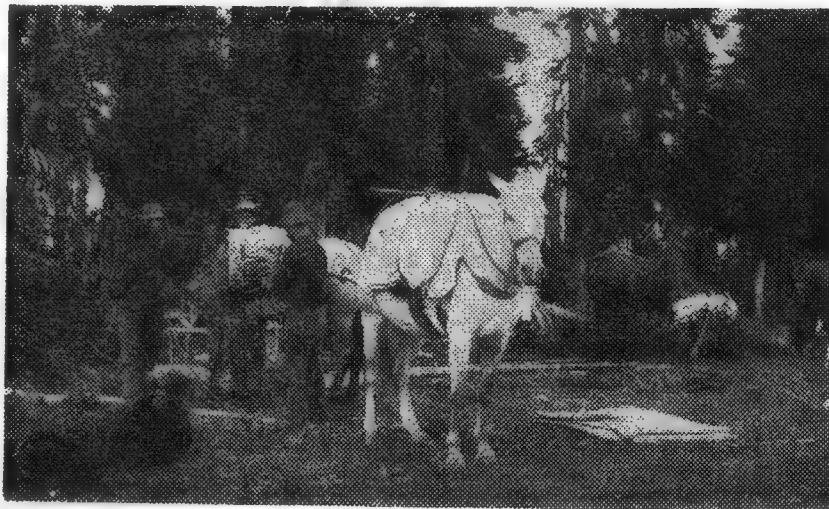
He had bought a new 44-40 calibre Martin repeating rifle, of which he was very proud, having had to borrow a single-shot muzzle loader on a former trip into the hills to hunt bear. That trip had ended hurriedly when he had come upon the imprint of a bear's track in the soil. The reason for his retreat being the memory of the Bald-faced bears he had been told about, that lived in the hills and would follow up and trace the course of any bullet that had been fired at them and kill the person before he could reload his gun. Now he owned a repeater and having gained more confidence was going after the grizzly. He was leading a pack-horse he had purchased from an Indian for \$1.50 when, as he rounded a bend in the road he met a handsome looking man dressed in fringed buckskin garments.

The stranger asked Harry where he was going with that outfit.

"To hunt a large grizzly bear that's killing cattle near Lilloet,"

## Hunting the grizzly

by Eydthe March



No fancy hard-topped roads or private aircraft to move a hunting party far inland in the early days. A strong back, a good pair of legs and a dependable packhorse was the order of the day. Here is a hunting party of the late H. J. Burton loading up for an expedition around 1895.

replied Harry. "There's a reward of thirty dollars for him."

"You, alone, a lad in your teens, no experience and that gun", asked the stranger. "Why you'd be killed tackling such an animal. I'm the one who should be going after that bear. My name is William Manson. Big game guide from Lilloet. My father was in charge of a Hud-

son Bay Post in the north. My grandfather was Peter Ogden, once Governor of New Caledonia under Hudson Bay. If you would like to come to my home, the Grange, at Marble Canyon, in a few days' time, I'll go with you to hunt that grizzly. If you like you can come along with me on various trips for I want to go and see what game is in the Chilcotin country. I have been

told the Indians there will kill anyone who goes into their territory, whether Indian or white."

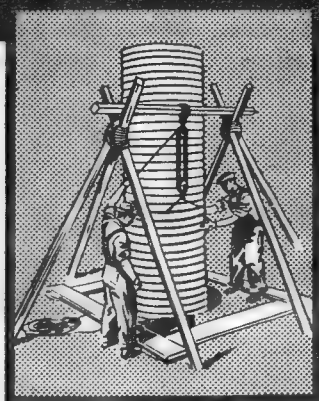
Harry went to the Grange and the two men set off together and so began a friendship that lasted many years and they had many thrilling experiences together.

At one place along the Fraser River trail, they saw three old muzzle-loading muskets leaning up against a tree. They heard later that three Thompson River Indians had been camped at that spot when some Chilcotin Indians had found them and killed them.

At one of their camping spots Harry counted four hundred and forty-five Mountain sheep, seven Mule deer bucks and twenty-two ptarmigan in one day. He shot his first Mountain sheep, skinned it and carried a hind quarter back to camp. It was a young ram and Harry swore it was the finest meat he ever tasted in his life.

The next day Harry had his first experience of shooting a grizzly, as he saw a large grizzly bear moving up a narrow valley. He hurried down the mountain side to where the valley forked, then carefully hid himself behind the roots of a fallen Jack Pine tree. He was thinking of those big Bald-faced bears who follow up the course of the bullet, then attack and kill. He meant to give the bear as much trouble as possible before it could find him. He waited, excitedly tense and impatient, yet slightly dubious as to the outcome of his adventure. Soon the bear appeared not far away and standing up on its hind feet reached up for some berries to eat. He was facing Harry, his broad chest exposed, so Harry fired. The bear didn't come charging as was expected but started to run away. Harry fired again, having gained confidence by the bear's retreat. This was so unexpected from what

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The rubber mattress and the nylon tent had not been invented when this picture was taken of H. J. Burton and Billy Manson in 1895. A canvas windbreak and the heat of an open fire reflected from a big rock, nevertheless, made a comfortable camp after a long day in the grizzly country.



he thought would happen, and having buckskin moccasins on, he took off after the bear excitedly yelling, "You cowardly Son-of-a-Gun. You cowardly Son-of-a-Gun." The bear ran faster than any race horse possibly could across the fallen timber and away, the 44-40 bullets not doing him much damage.

When Harry returned to camp Billy Manson scolded him for his foolishness at trying to kill the bear by himself. "What if it had charged you instead of bolting?" he asked. "It would have been a different story then."

The next day they hunted the grizzly again, for no one is supposed to leave a wounded animal, and spotted it across the valley.

Billy climbed around and above the animal so it would get his scent and go back to where Harry was waiting to shoot it. As it neared Harry, it caught his scent and with a roar it charged as he fired at it. It kept on coming, its roaring echoing across the narrow valley. Harry fired again, but it still came on. Suddenly another shot rang out from Billy Manson's rifle, and the bear collapsed with a roar, that ended in a grunt. Harry shot it once more as did Billy. The huge bear lay still.

"You keep your gun on it, Harry, while I see if it is really dead or only pretending", said Billy Manson. "Never trust a bull, a bear or a boar till you are very sure they are absolutely dead." He picked up a heavy stone and threw it at the bear. No movement, so he poked at it with a long stick, but it lay still. The grizzly bear was a very dead bear, so Harry lowered his gun and walked over to examine the large animal.

So ended Harry's first experience at killing a grizzly bear, but he had many more experiences from that day on with those large ferocious animals.

### Old horse

**H**OW long do horses live? The Italians claim to have a war horse who has just celebrated his fiftieth birthday. His owners have official records showing the horse, Topolino, was taken into the Italian army as a three-year-old, 47 years ago. He worked with the artillery in the First World War. Topolino is still in good health and neighborhood children often ride him around his pasture.

### New Whoop-Up Trail?

**A** MOVE is underway to have the highway from the International Border at Coutts to Calgary named the "Whoop-up Trail". The highway is presently numbered in one stretch as No. 4, in another No. 3, and still another stretch is No. 2. Backers for the change include representatives from most communities located on the route. The sponsors feel that tourists would be more inclined to re-

member a named highway than a numbered road. Whoop-up is historically associated with Southern Alberta, and is an eye-catching and a provocative, distinctly Albertan name.

### Ready for grasshoppers

**T**HE prairies are arming for a grasshopper war. Enough dieldrin has been ordered by the Saskatchewan Department of Agriculture to treat seven million acres of rich grain land.

Dieldrin is so powerful that one ounce (diluted in water) per acre is sufficient to finish Mr. Hopper. It will be sprayed over the fields in May and June when the grasshopper is young and most susceptible to the chemical. One of the worst grasshopper outbreaks on record is feared in the west this year.

### Meat is top industry

**A**LBERTA may be the oil province of Canada, but meat

packing continues to be the leading classified industry with 1958 production valued at \$169 million. Overall gross value of food and beverages at \$331 million was more than double petroleum and coal production.

### McINTYRE'S SADDLERY

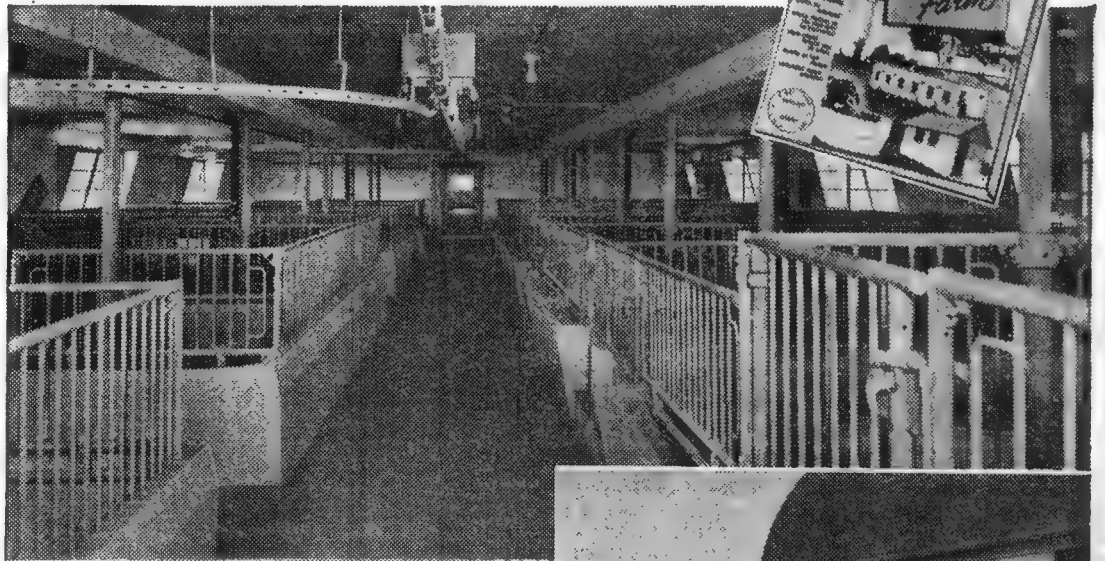
"SASKATCHEWAN'S FINEST WESTERN STORE"

SWIFT CURRENT SASKATCHEWAN

WRITE FOR FREE CATALOGUE

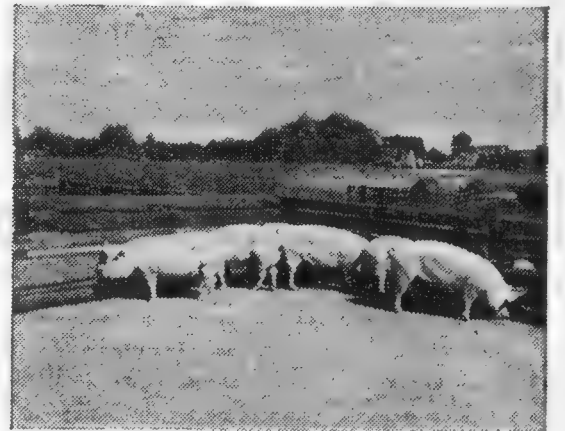
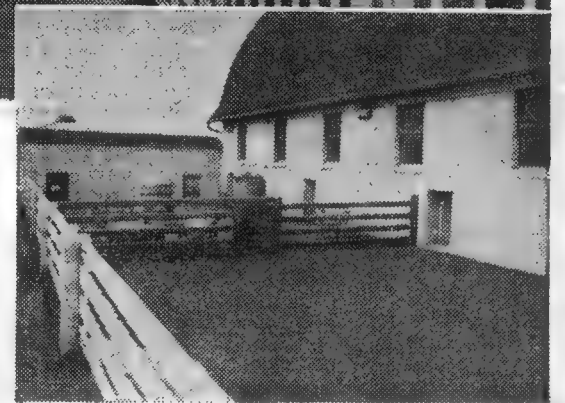
# HOG BREEDERS

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**CANADA CEMENT**



You will find many useful ideas in this free 116-page book of practical information on how to build modern, fire-proof, sanitary hog houses—feeding floors—outdoor pens—and other farm structures.

This handy book will also give you information on how to make high quality concrete as well as detailed instructions on how to build concrete block walls for all types of farm buildings.



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**SPAIN** expects to make a sharp increase in **CITRUS FRUIT PRODUCTION** for this 1958-59 season. Forty-five million boxes of oranges are expected; one-and-one-half million boxes of lemons.

**ELECTRIC HEATING** has been installed under the floor of one of the **LIVESTOCK SALE RINGS** at **LANARK IN SCOTLAND** . . . not for the benefit of the livestock, but for the spectators.

South of the equator, **PERU** is importing **HIGHLAND CATTLE**. Four Galloway bulls have been bought in **BRITAIN** and have been shipped to the South American ranches.

Almost everything is being sold these days by **VENDING**

**MACHINES** . . . soft drinks, chocolate bars, cigarettes, even milk. In the **UNITED STATES** a North Carolina farmer has come up with a vending machine to sell **EGGS**, and he's selling more than ever before. Looking much like a soft drink dispenser, complete with refrigerated unit, the machine holds 100-dozen eggs. Working 24 hours a day, it has earned its owner an extra \$2,000 in the first year of operation.

A **LONDON** company has brought out sets of **HALF-TRACKS OF LIGHT ALLOY**, suitable for replacing the rear wheels of both medium and light tractors. They will fit most makes of tractors if hub adaptor plates are used. Sold under the trade name of Ro-

taped, these half-tracks are made up of six straight sections about a foot wide. Inside is a giant cogwheel which replaces the ordinary tractor wheel and is fitted in the same way. The track sections, guided by tension chains, pass over the cogwheel. The company claims that a screwdriver and wrench are all that is needed for replacing worn parts; that drawbar pull is doubled with the tracks and pulling is even.

**CANADIANS** have levelled off their meat eating. Per capita **CONSUMPTION OF RED MEAT** in Canada, which was rising steadily has levelled off at the 1956 rate of 132.7 pounds. A reduced pork consumption was offset by moderate increases in all other class-

**HAMPSHIRE, ENGLAND**, formed to buy fixed equipment has just seen its grain drying and storage plant go into action. The syndicate borrowed 80% of the capital from a company sponsored by the National Farmers' Union which, in turn, borrowed on special terms from a bank. The loan will be paid off over four years at 1½% above the ruling bank rate. This **FARMERS' MACHINERY SYNDICATE** is the eleventh to be formed in Hampshire. The other syndicates buy movable machinery — combines, hay turners, and so on.

**SCANDINAVIA** is importing **NEW SWINE BLOOD STRAINS**. Thirteen **CANADIAN** Yorkshire hogs have been shipped overseas to **SWEDEN**. They were purchased to overcome the effects of close breeding.

Cattle worth £50,000—**HEREFORD** beef cattle, **JERSEY** dairy cattle, with a few **ABERDEEN-ANGUS** beef cattle — have been bought for **STATE FARMS IN CROATIA** following a tour of **UNITED KINGDOM** farms by a two-man cattle-buying mission from **YUGO-SLAVIA**. Among the Jerseys

## Fertosan ORGANIC SEPTIC TANK CONDITIONER DOMESTIC SIZE TREATMENT

KEEPS ANY SEPTIC TANK FREE FLOWING FOR AT LEAST THREE MONTHS. PREVENTS PLUGGING AND REMOVES OFFENSIVE ODOURS. SAFE AND EASY TO USE.

NON POISONOUS NON CORROSIVE

UNAFFECTED BY MODERN DETERGENTS

FULL DIRECTIONS ENCLOSED

Made in England

### SEPTIC TANK CONDITIONER

Thousands of Home Gardeners are now familiar with the wonderful results obtained from the use of Fertosan Regular and Fertosan Myco Compost Accelerators.

Their low cost and ease of application make them a boon to all people who are interested in making a cheap but very valuable organic manure from their garden waste — weeds, leaves, spent annual plants, grass clippings, etc.

Now Fertosan Ltd. has made available another valuable product "Septosan" which is a dormant bacteria, activated by merely adding hot water and when introduced into the septic tank by way of the wash basin, sink or toilet flush, will keep the tank clean, clear and free from objectionable odours.

The above procedure applies to Septic Tanks that are operating normally. Where, however, clogging and blockages have already occurred, a second treatment should be injected into a system, fourteen days after the first treatment, when unclogging will occur.

If the treatment is followed at regular intervals of three months your Septic Tank will remain in a free flowing condition.

Septosan is NOT affected by any of the modern detergents and no advantage is gained by repeating treatments at shorter intervals than the three months already stipulated.

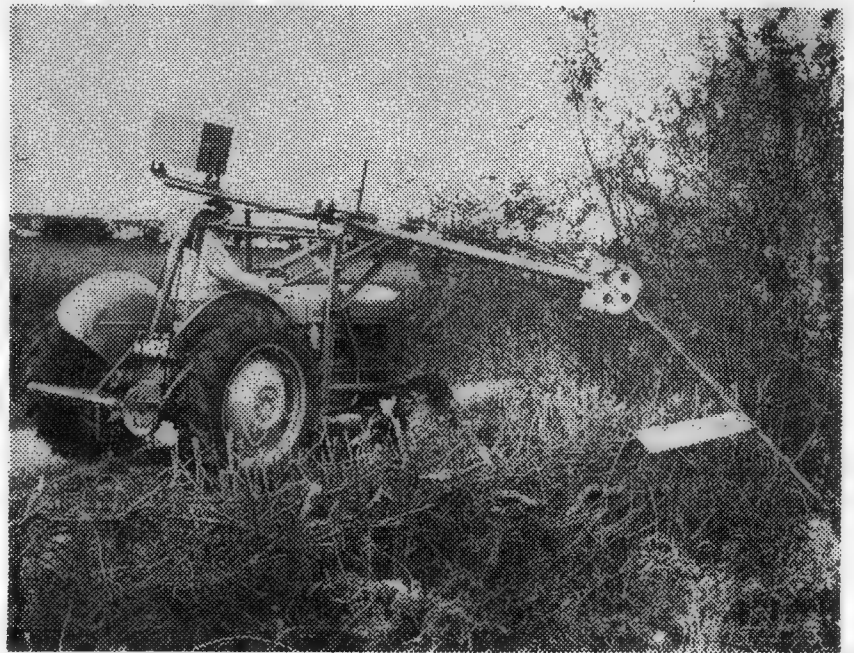
Clear, simple instructions are contained in each packet.

G. E. DAWSON, Inventor and Technical Director, Fertosan Ltd., England.

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562 Beatty Street, Vancouver, B. C., Canada



Brush clearing is a headache at any time and any place, but particularly so in a land like Britain where substantial rainfall encourages the growth of brush and trees along every roadside and ditch. This is a piece of specialized equipment used in England to clear away roadside brush, operating from the tractor seat.

es of meat. A very slight trend to the reverse of this is expected in the coming year.

**HONDURAS** has sharply upped its **EXPORTS OF PLANTAINS**. Plantains grow much like bananas and, in Honduras, seem to resist most banana diseases. Most of the fruit is shipped to the **UNITED STATES** to satisfy the demand of **PUERTO RICANS** and other **LATIN AMERICANS** in New York City. The trade estimates that there is a market for 10,000 stems (30 pounds each) and production has so far been expanded to 7,000 a week . . . and rising. The fruits need lots of water, and irrigation has been stepped up.

A syndicate of 14 farmers in

were five in-calf heifers bought from a farm at Westerham, Kent, which until recently belonged to **SIR WINSTON CHURCHILL**.

**WHEAT** still holds **FIRST PLACE IN WORLD GRAIN PRODUCTION**. There have been substantial increases in production of **RICE AND CORN** in recent years, but wheat still holds top place for production and acreage. World acreage of wheat is about 500 million acres. Rice acreage is about 271 million. Wheat production in 1957 was estimated at a near record high of 207 million metric tons; rice production was estimated at 194 million metric tons; and corn was 164 million.



**BRITISH GUIANA** is importing **FROZEN SEMEN** from the **UNITED KINGDOM**. Shipped by the Hampshire Cattle Breeders' Society of Hampshire, it will be used for the improvement of Guiana cattle.

The **SOVIET UNION** contracted for over six million pounds of **INDIAN CARPET WOOL** this spring. Ninety per cent of the purchases were among the best carpet wool that India produces with prices ranging from 56 to 70 cents f.o.b. Russia buys wool on a clean scoured basis rather than the clean fibre basis requested by U.S. buyers.

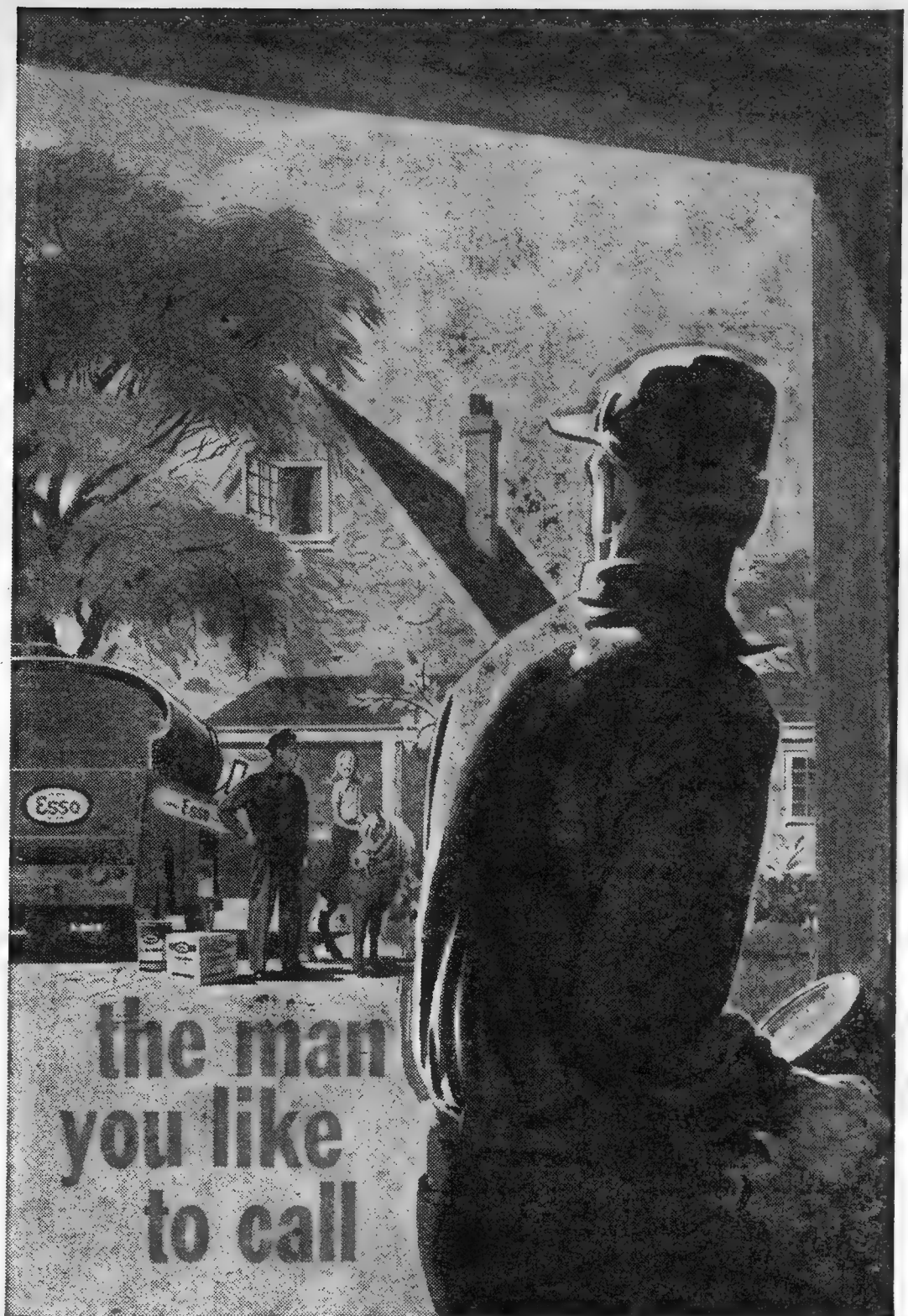
Also, Russian buyers pay only 90% against shipment with the rest payable 120 days after shipment. This is to facilitate any claims against the supplier, but the Russians have made no claims since they started their large-scale wool buying in 1956. This is impressing Indian traders.

**FORAGE HARVESTERS** are now being used for haying on a farm in **SUSSEX, ENGLAND**. Extended trunking fitted to the harvester's delivery chute makes the cut grass pass over an inverted V-shaped shoe which leaves the crop in fluffed-up rows resting lightly on the stubble with an air tunnel below.

**COLUMBIA**, the world's second largest exporter of coffee, is trying to **TRADE COFFEE FOR STEEL**. The Colombian government has announced a plan to exchange coffee for 26 bridge "structures"—a transaction running to a total of between \$2,500,000 and \$3,000,000. This would help Columbia conserve needed dollars. Only bids from European organizations will be accepted and those received so far include one from **FRANCE**, two from **WEST GERMANY**, and two from **COMMUNIST COUNTRIES**.

A MACHINE WHICH PULVERIZES **POTATO STEMS AND LEAVES** with 28 whirling chain flails and returns them to the soil as fertilizer has been put on the market in **ENGLAND**. The chain flails, shaped to fit the potato row, are attached to a rotor-shaft which revolves under a protecting hood.

In a single three-month period last fall 46 **NEW CREDIT UNIONS** in far-away lands were reported to the **CUNA World Extension Department**, and the first credit union was organized in **VIETNAM**. **CUNA** works with the **U.S. GOVERNMENT** and the **University of Wisconsin** and recently arranged training in credit unions for leaders from **TRINIDAD, PERU, AUSTRALIA, NIGERIA, YUGOSLAVIA, PHILIPPINES, JAMAICA, THAILAND, SPAIN, TUNISIA, TURKEY** and **BURMA**.



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**ALWAYS LOOK TO IMPERIAL FOR THE BEST**



# A GOOD CATCH

**A**NNOUNCE TO YOUR FRIENDS THAT NO ONE PRESENT CAN CARRY A COMMON WOODEN MATCH, WHICH YOU EXHIBIT, OUT OF THE ROOM WITHOUT BECOMING COMPLETELY EXHAUSTED.

**C**HALLENGED, YOU GET OUT YOUR KNIFE AND WHITTLE OFF THE TINIEST SLIVER OF THE MATCH, WHICH YOU GIVE TO YOUR VICTIM, TELLING HIM TO RUN OUT OF THE ROOM WITH IT AND HURRY BACK FOR THE REST.

**O**BVIOUSLY IT WOULD TAKE A LONG TIME TO USE UP THE MATCH, AND YOUR VICTIM WILL SOON ADMIT THAT HE WOULD BE EXHAUSTED IN THE ATTEMPT.



(Reprinted by The Associated Newspapers) 11-2-58

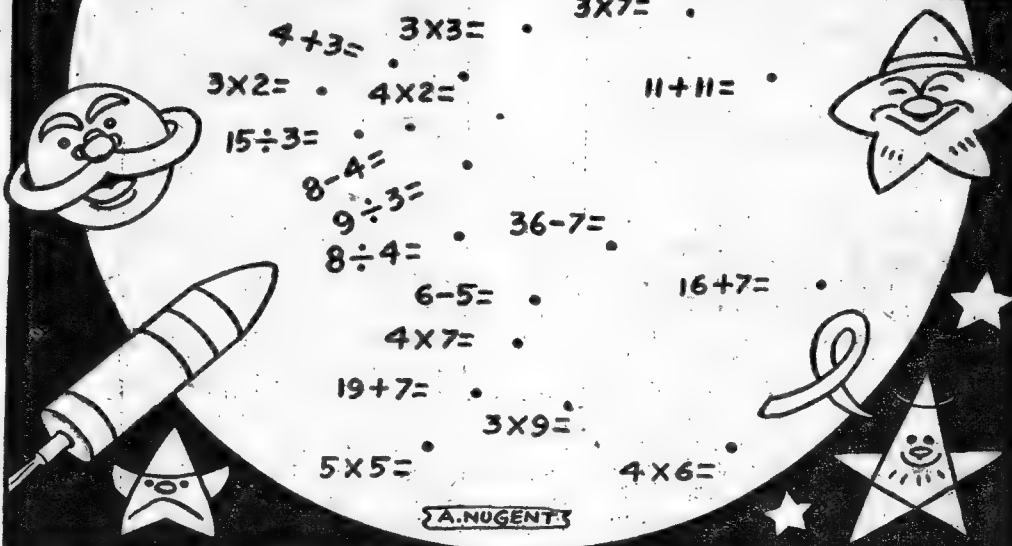
# FUNLAND

by A.W. NUGENT  
The WORLD'S LEADING PUZZLEMAKER  
THE FAMILY ENTERTAINER

**LOOK!**  
I LANDED  
ON THE  
MOON.  
**FINISH**  
THESE  
EXAMPLES  
IF YOU WANT  
TO SEE ME.

$$\begin{array}{l} 9+8= \\ 4 \times 4= \\ 7+6= \\ 2 \times 6= \\ 7+4= \\ 5+5= \\ 4+3= \\ 3 \times 2= \\ 15 \div 3= \\ 8-4= \\ 9 \div 3= \\ 8 \div 4= \\ 6-5= \\ 4 \times 7= \\ 19+7= \\ 5 \times 5= \end{array}$$

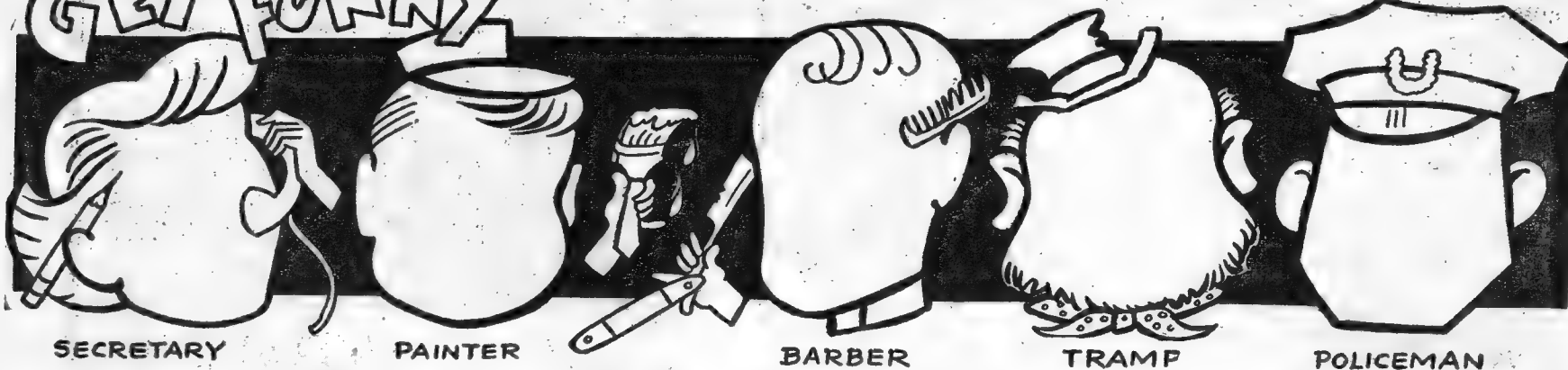
**THEN**  
JOIN  
THE DOTS  
NEAREST  
THE ANSWERS,  
IN THEIR  
ORDER, FROM  
ONE TO  
TWENTY-NINE.



A. NUGENT

# GET FUNNY

WITH YOUR PENCILS. DRAW IN OUR COMIC FACES.



SECRETARY

PAINTER

BARBER

TRAMP

POLICEMAN

# QUIZSUM

**T**RY TO WRITE THE CORRECT NUMBERS AT THE RIGHT OF THE QUESTIONS. THEN ADD THEM TO SEE IF YOU GET THE CORRECT TOTAL.

- HOW MANY BLACKBIRDS WERE BAKED IN A PIE? →
- A BUSHEL CONTAINS HOW MANY QUARTS? →
- HOW MANY FEET ARE IN A FATHOM? →
- WHEN DID COLUMBUS DISCOVER AMERICA? →
- WHAT NUMBER DO THESE ROMAN NUMERALS REPRESENT, XLI? →
- TOTAL →

WHAT OTHER BIRD DOES THIS PICTURE SUGGEST?



PEACOCK (P. ROCK)

THINK OF FOUR OTHER ANIMALS THAT WILL RHYME WITH THESE.



OX, MONKEY, BEAR, GOAT

# GTTTEEIIHCSS

USE UP ALL THE ABOVE LETTERS TO SPELL 3 WORDS THAT SOUND THE SAME BUT ARE SPELLED DIFFERENTLY.



(ETIC, ETIS, THIS & -) READING BACKWARDS

# Kids: Draw a thumb-dog

**D**RAW AROUND YOUR THUMB LIKE THIS.



**T**URN IT UPSIDE DOWN AND PUT IN THE FINISHING TOUCHES



READING DOWNWARD: 24, 32, 6, 14, 92, 41. THE TOTAL IS: 1595.

85-2-11



## World production of selected crops

Crop	Unit	Average Average			Forecast	
		1935-39	1950-54	1950-57	1957-58	1958-59
Wheat	mil. bu.	6,102	6,970	7,790	7,640	8,710
Rye	mil. bu.	1,732	1,455	1,405	1,415	1,470
Rice, rough	mil. cwt.	3,706	3,940	4,397	4,248	4,712
Sugar, centrifugal	mil. s.t.	28.5	39.1	45.8	49.7	52.2
Corn	mil. bu.	4,775	5,650	6,570	6,550	7,100
Oats	mil. bu.	4,364	4,155	5,255	3,995	4,160
Barley	mil. bu.	2,377	2,690	3,370	3,155	3,230
Dry Beans	mil. cwt.	60.9	75.5	88.5	87.6	92.2
Potatoes	mil. cwt.	3,282	3,306	3,698	3,524	3,375
Apples and Pears	mil. bu.	579	478	515	367	565
Fruits, citrus	mil. s.t.	9.8	14.7	15.1	14.7	15.2
Flaxseed	mil. bu.	135	121	168	127	140
Soybeans	mil. bu.	464	682	849	877	984
Peanuts	mil. s.t.	9.6	11.6	14	14.7	15.5
Cottonseed	mil. s.t.	15.3	17.9	20	19.9	20.8
Olive oil	thou. s.t.	975	1,079	1,178	1,201	1,095
Cotton	mil. bales	31.7	37.2	41.3	40.2	42.3
Tobacco	mil. lbs.	6,619	7,811	8,678	8,608	8,263
Jute	mil. 60-kg.	3,422	3,885	4,619	4,245	4,430
Coffee	bag	41.6	41	45.2	53.4	59.2
Tea	mil. lbs.	994	1,318	1,524	1,567	1,612
Sisal	mil. lbs.	507	816	1,118	1,123	1,125

## Drill setting for storage crops

**SEEDING** rates for forage crops are usually based on the number of seeds per square foot.

In the prairie region, the recommended hay or pasture seeding rates for grasses, legumes or mixtures of grasses and legumes is from 25 to 35. This number of seeds is the basic rate whether seeding is done in 6-inch or 12-inch row spacings. Furthermore, 25 to 35 seeds per square foot is the proper seeding rate for most of the common forage crops including crested wheatgrass, intermediate wheatgrass, brome, Russian wild rye grass, slender wheatgrass, alfalf, sweet clover or

any combination of these.

Since the seed size varies greatly from crop to crop, such as between alfalfa and brome, it follows that 30 seeds per square foot of one might represent 10 pounds per acre while only 4 pounds per acre of the other. In other words, 4 pounds of brome also results in 30 seeds per square foot.

Proper drill setting for any forage crop thus becomes a very simple procedure. The operator needs only to determine at which setting he is delivering 30 seeds per square foot. Where drill rows are 13 inches apart the proper setting is where a total of 30 seeds are being dropped for each 12-inch length of row. This can be easily determined by seeding a few yards on a hard packed road where all the seeds will be placed on the surface for easy counting. Two or three setting adjustments should enable the operator to achieve the proper delivery rate and hence the correct setting and seeding rate for any single forage crop or mixture. It must be remembered that 30 seeds should be the total of all seeds when using a mixture.

## Control warble flies

**WARBLE** fly grubs, which begin to appear in cattle at this time of year, can cause considerable loss and damage if not immediately controlled.

"Damage is done because holes in the hide, caused by the grubs, reduce the value of the leather," say authorities. "Irritation is caused by the female fly as she is laying her eggs. Dairy cows give less milk, and other cattle may lose flesh during the period of egg laying. Damage is also done to carcasses from grub infected cattle as large discoloured areas are present where the grubs occur. This involves considerable trimming and can be a serious meat loss."

Conspicuous swellings in the backs of cattle at this time of year are the most common symptom of infection. The swellings contain warble grubs, which are the larvae or maggot stage of heel flies.

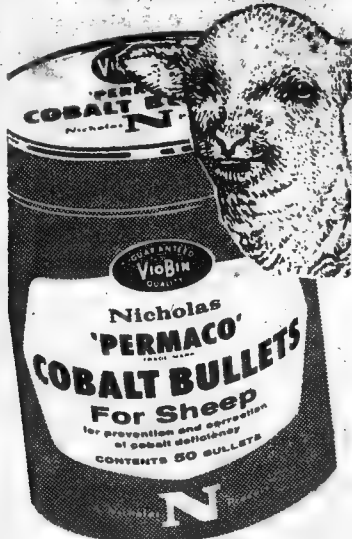
Warble outbreaks can be controlled by treating cattle during spring with a wash or spray that will kill the larvae on the backs of the animals, or with two new chemicals, Co-Ral and Trolene, now licensed for sale in Canada.

IT'S EASIER NOW—THE BOSS PULLS MY TONGUE FORWARD AND WITH HIS OTHER HAND HE DROPS THE GREASED TABLET ON THE BACK OF MY TONGUE—I SWALLOW AS MY TONGUE COMES BACK—IT WORKS—GENTLE AND SURE!

**DR. BELL VETERINARY MEDICINE CO.**  
Kingston, Ontario, (Canada)

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...FOR MORE PROFITS!



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Supply Of Cobalt In One Dose!

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## **CFRN**

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**April 25th at the Edmonton Gardens**

*Featuring JOE HALL of Seattle*

with special guests, Riders of the 1959 Rodeo of Champions and Stars of TV's  
Country Hoedown

**KING GANAM and TOMMY HUNTER**

*Music by GABY HAAS — Emceed by TONY BIAMONTE  
and JCHN RIOPEL*

**BROADCAST — 9:00 p.m.**

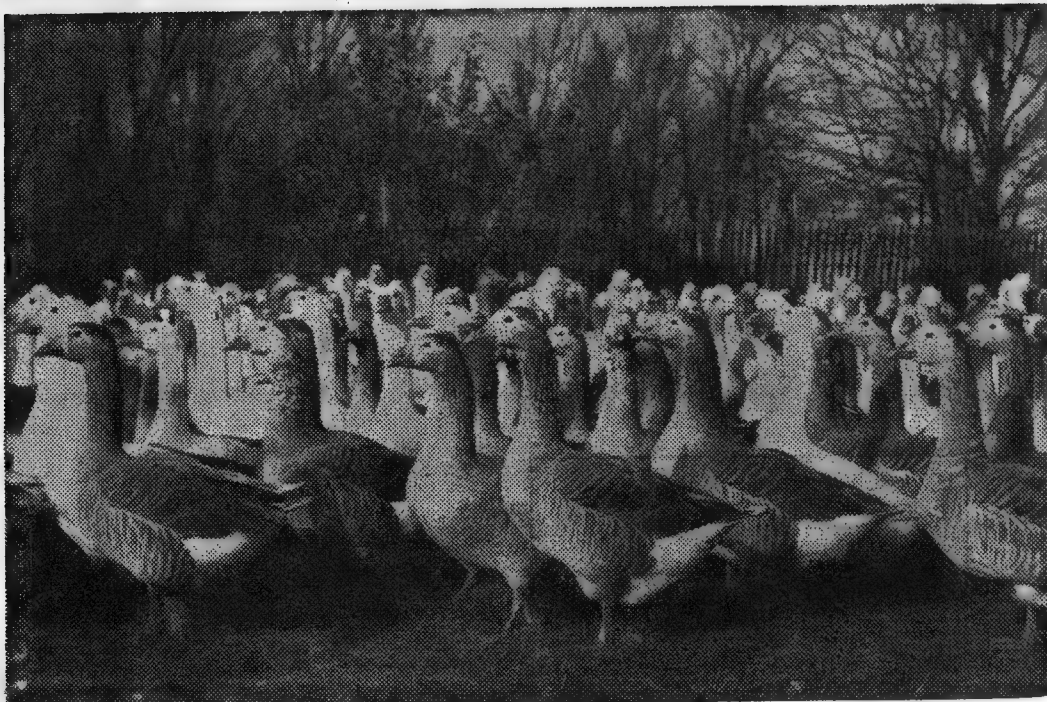
**DIAL 1260**

Presented in co-operation with the Edmonton and District  
Square Dancers and Square Dance Callers Associations,  
and the Edmonton Exhibition Association.

**Dancers and Spectators Welcome. Tickets at the Door.**

**CFRN RADIO**  
EDMONTON





## Goose egg-laying hiked in Ottawa test

**H**AS the goose a future? With Canada's poultry industry expanding rapidly, this question takes on added meaning and it is currently under study at the Central Experimental Farm at Ottawa.

Pictured above are Pilgrim geese at the Farm; the males being the white birds.

Results of a breeding program prove that rapid progress can be made with the geese, but whether goose meat can be produced as cheaply as other types of poultry only time will tell.

Activity is Seasonal

Geese are seasonal egg layers, producing only for four or

five months each spring. Their low egg production has meant high gosling cost.

The Ottawa breeding program has met considerable success in increasing egg production. Average number of eggs in the first production year has been raised from 14 to 34 — a staggering 140 per cent hike—over a period of seven generations.

While this is still lower production than that of large type turkeys, the goose's production increases during the second laying year and again in the third year.

Further, the effort that has been directed to increasing egg

production in the goose is very small compared with that devoted to turkeys or chickens.

Rapid Grower

Other advantages: (1) It is the most rapid growing of the domestic species of poultry; (2) It is a good forager and pasture can be used to reduce the amount and quality of feed; (3) It is more resistant to disease than chickens and turkeys and mortality in growing and breeding flocks is generally much lower; and (4) It is extremely hardy, so that inexpensive housing can be used in the winter and no housing is needed in summer.

## Plant trees in spring

**O**N the prairies spring is the best season for planting trees, shrubs and many perennials. Soil moisture conditions are usually favorable at this time. Early planting allows the maximum time for a plant or tree to become established before winter.

## Durum wheat crop down

**T**HE Durum wheat yield was once as high as 40,000,000 bushels in Western Canada. This was a production far in excess of the demand with the result that there has been a steady decline in the acreage sown to this wheat. Due to this, and to drouth conditions over most of the Prairies this year's estimate is for a crop of under 13,000,000 bushels.

Copenhagen



"THE WORLD'S BEST CHEW"

## Cultivators popular

**D**RY weather the past two years has boosted the popularity of heavy duty and blade type cultivators for tilling summerfallow on the prairies, according to Jack Peck, Mechanics Specialist with the Saskatchewan Department of Agriculture.

Cultivators do not disturb the soil much, he says, so there is less erosion than with disc-type implements. In addition, trash is left intact on the surface, helping the soil absorb more moisture.

Another factor boosting popularity of cultivators is their easy adjustment. Heavy duty cultivators usually need only to have the frame level. When being hitched to the tractor drawbar, adjustments are made up or down on the implement's hitch to make sure the frame is level from front to back.

Cultivators can be run faster than discs without excessive pulverizing. Heavy duty cultivators may run up to 5½ miles an hour compared to a maximum of four miles per hour with one-ways or discers.

A widely used combination of implements the past two to three years has been a wide-level discer and a heavy-duty cultivator. The cultivator is able to

break up the tillage pan of tough soil that develops by continued use of the discer.

In buying a heavy duty cultivator, Mr. Peck advises to make sure it is equipped with the shovels best suited to the land it will till. He suggests buying high-lift shovels for use on summerfallow where moisture content or clay content is high. These shovels actually lift soil higher, shaking soil from weed roots, ensuring a better kill.

The shank of the cultivators should be attached fairly close to the point of the shovels to prevent the shanks from gouging furrows in the soil. With the shank attached closer to the point, soil falling off shovel wings is able to partially fill in the trench made by the shank. This cuts down soil ridging.

Cultivator shovels should overlap the shovels they are following by a good two inches to ensure complete kill of weeds. Shovels should run flat from point to heel, with the point tipped slightly downwards to improve penetration into the soil.

Cultivators, Mr. Peck believes, deserve their increasing popularity in dry conditions because they kill weeds thoroughly, and are easy on the soil.

BACK TO THE LAND  
WITH ALBERTA'S FINEST



HIGH IN PURITY  
FREER FROM WEED SEEDS

Save Seed Dollars by buying quality seed from your own Farmer Organization. Decide now to plant the best. Get prices from

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PS-2

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Farmer-Owned Co-operative



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## \$150.00 Winner

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Many Other  
CASH Prizes  
Ranging From  
**\$150.00**  
to  
**\$25.00**



*Mr. Alf. Parkvold of Chagoneess, Saskatchewan*

shown here with his wife and family. "I never," Mr. Parkvold wrote us, "have had any luck with contests, but thought I would just try this one. When I found I was one of the winners I was certainly glad, and the money sure comes in handy at this time of year." Mr. Parkvold had a pleasant surprise — it might be YOUR turn this time.

IT  
COSTS  
YOU  
NOTHING

All you have to do to qualify is correctly answer the question at the bottom of this page, and mail it along with the \$1.00 payment and signature of a new subscriber living in Western Canada to the FARM AND RANCH REVIEW, Box 620, Calgary, Alta.

He in turn will receive in the mail a copy of the FARM AND RANCH REVIEW every month FOR THE NEXT TEN YEARS. THIS SPECIAL FARM RATE MAKES IT EASY TO GET ENTRIES.

All answers mailed to Box 620, Calgary, by the end of JUNE will be placed in a churn. Under the supervision of the Company's Auditors, the first correct answer drawn will receive the big cash prize of \$500.00. This will be followed by the drawing of 12 OTHER WINNERS.

Winners' names will be published in the FARM AND RANCH REVIEW and at the same time, the prize money will be promptly mailed.

REMEMBER . . . You cannot qualify by sending in your own subscription. Your entry will be disqualified if you send in a "gift" subscription or sign the order form for the subscriber.

— ENTER OFTEN —

**QUESTION: WHO IS THE AGRICULTURE MINISTER OF CANADA ?**

MY ANSWER : .....

MY NAME AND ADDRESS : .....

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PLEASE INDICATE WHETHER : NEW ..... or RENEWAL .....

Each new subscription or renewal entitles you to send another entry to the Contest. List extra entries on a separate sheet, but be sure to answer question.

Remit the subscriber's payment by postal note, money order, or by cash along with his signature and address direct to FARM AND RANCH REVIEW, Box 620, Calgary, Alberta.



**EVEN** the Romans wouldn't give women credit for being good drivers. In 205 B.C. a law was passed to stop women driving chariots, or riding horses, on the streets of Rome.

**EXPORT** controls have been placed on the Lacombe breed of swine by the Canadian government. The action was taken to ensure that breeding stock is not depleted to the point where increase and distribution would be seriously affected.

**A** COAT of metallic zinc paint will give protection to galvanized surfaces of farm structures, from rust, for about 10 years.

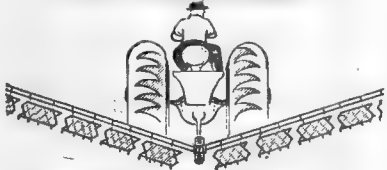
**THE** amount of excavation required to build the South Saskatchewan River dam would make a hole in a square city block one and a half miles deep.

**THERE** is said to be a record with the U.S. Dept. of Agriculture proving alfalfa roots were found penetrating the roof of a tunnel 129 feet below the surface of the alfalfa field.

**A** COW chewing on the barn door is not necessarily trying to get out, or in, she may just be lacking some minerals in her feed.

**TESTS** have shown that it is not only humane, but practical to rest a hog before killing. Hogs allowed to rest 12 to 24 hours before slaughtering lasted longer in freezers than tired hogs.

## HARROW EQUIPMENT with money-back GUARANTEE



- ROLLING HARROW DRAWBARS
- ALL STEEL DRAG HARROW DRAWBARS
- DIAMOND AND FLEXIBLE HARROW SECTIONS
- NEW DIAMOND-SHAPED HARROW TEETH (for better penetration with lighter draft).

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Box 53, Winnipeg, Man.

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Box 1184, Regina, Sask.

Northwest Farm Equipment Ltd.,  
Box 351, Calgary, Alberta

# Pellets

**AT** 18 months, experts say, a Holstein heifer should weigh about 860 pounds, an Ayrshire 690 pounds, a Guernsey 660, and a Jersey 615.

**MANY** Maritime province strawberry growers use growing goslings (not geese) as a natural weed destroyer and light cultivator in their berry patches.

**PEOPLE** need calcium all of their life. Three glasses of milk a day will supply the normal adult's calcium needs.

**POULTRY** flocks can go into a serious slump when lice or mites hit them. Dairy cows, too, will drop in production if lice are allowed to get too thick on them.

**COLOR** evidently enters even into the sale of eggs. An intensive survey by Michigan State University showed most consumers preferred red as a solid color in egg cartons, followed by yellow, green and blue. In combination, green and white was tops, with red and white second.

**RESIDENTS** of North Battleford and Meadow Lake, Sask., are being asked (in a series of meetings) to implement rat control measures before it is too late.

**BE** sure the lids on farm chemicals are tight. Even then store them out of the reach of children, animals — and of grain. A pound of 2,4-D, experts say, can kill the germination of three to four thousand bushels of seed if allowed to contaminate a granary.

**POPLAR**, willow, maple, ash, elm and caragana should be cut back to ground level if they become damaged, overgrown or weakened from any cause. Spruce and pine have no such recovery value after complete defoliation or removal of the trunk or stem.

**PERHAPS** the way to improve your dairy herd is to get better cows. Many cows lack the inherited ability to efficiently convert feed into milk.

**TAME** animals can be as dangerous as "unloaded guns." It is often the tame animals that injure or kill someone. Treat them with respect, especially when they have young around.

**CHINA** is making great progress in farm production. It now produces more grain per capita than Europe and will soon overtake it in meat production. Almost 160,000,000 acres are under irrigation. In the U.S., irrigation covers about 35,000,000 acres.

**THE** British claim to be the most highly mechanized country, agriculturally, in the world, with one tractor to every 27 acres of arable land.

**A** CHANGE has been announced in Alberta's Cattle Improvement Policy, in assisting commercial producers to buy pure-bred bulls. The assistance will now be 20% to a maximum of \$75.00, instead of 10% to a maximum of \$50.00.

**OF** Canada's original forest about 60 per cent has at one time or another been burnt which is about four times the part of it which has been commercially cut.

**IT** is claimed that scientists have developed a feed ration for broilers with a conversion rate as low as 1.11 pounds of feed per pound of gain.

**WHEN** Christopher Columbus came to America there were no cows here, but on his second voyage, in 1495, he brought cattle, and other farm animals to the West Indies.

**IN** the Philippines snails are fed to ducks and the biggest labor in connection with raising ducks is the gathering or the snails.

**YOU** can't, says a hog breeder, make money any easier than in taking your time in loading hogs for shipment: the weight saved will make good wages.

**THE** Farm and Ranch Review, with the March issue, started on its 55th consecutive year of publication in Western Canada.

**THE** cost to the Canadian people in taxes for old age pensions, hospital insurance and family allowances is more than 4 million dollars every day.

**A** NEW giant tractor, weighing 25 tons and capable of pulling a 28-ton load, has tracks which exert a pressure of only two pounds per square inch. It was built in Britain for work in Nigeria.

**THERE** are 28 certified brucellosis areas across Canada, involving around 560,000 cattle.

**IN** the past year Canada's money supply has been increased by \$1,600,000.00.

**ARGENTINE**, known as the world's greatest steak eater, has apparently eaten itself into a beef shortage, since eating places have been put on beefless Mondays and Fridays.

**MEXICO** believes it is on the way to wiping out the tick which costs the country's livestock industry about \$160,000,000.00 a year.

**CHICKWEED**, that bane of the home gardener, may soon be got rid of. A chemical (Nebuon) which seems to fix the weed is expected to be commercially available soon.

**A** COW should be dry 6 to 8 weeks after a lactation of about 300 days. A cow not allowed to build itself up for the next milking won't produce as well as one with sufficient dry period.

**THE** C.N.R. and the C.P.R. have announced that their piggyback services for licensed "for hire" truckers has been extended from Winnipeg to Regina, Saskatoon, Calgary, Edmonton and Vancouver. This extends the service from coast to coast.

**A** GRANT of \$2,200.00 to the Saskatchewan 4-H club movement has been given by the Aberdeen-Angus (\$500.00), the Hereford (\$1,000.00), and the Short-\$ (700.00) Associations of the province.

**FREEZING** weather and dampness can knock weight off your pigs just about quicker than anything else.

**WHERE** will farm surpluses be in the year 2000? Experts figure that world population (barring catastrophe) will have increased to over 6 billion by then; or more than double today's.

**A** LARGE increase in sunflower acreage is looked for this year in southern prairie provinces.

337 million pounds of creamery butter were produced in Canada in 1958, or nearly 20 pounds per person.

**A** COPY of "Field Crop Recommendations for Manitoba" may be obtained from the office of the Representative or Publication Branch, 169 Legislative Bldgs., Winnipeg.

**IN** Manitoba, last year, seven persons were killed and fourteen were injured by firearm mishaps of which all but one, it is stated, were caused by carelessness.

**EVERY** minute of the year Canada produces twenty tons of pulp and paper.

## HANFORD'S



Now, a more economical, faster, easier method of treating mastitis! The 4-shot, 4-tip SELECTA syringe contains 24cc of a high-potency antibiotic formula that is a medically proved specific for the usual mastitis-causing bacteria. Snap-off plastic tabs accurately measure four 6cc doses. Conforms with latest regulations.

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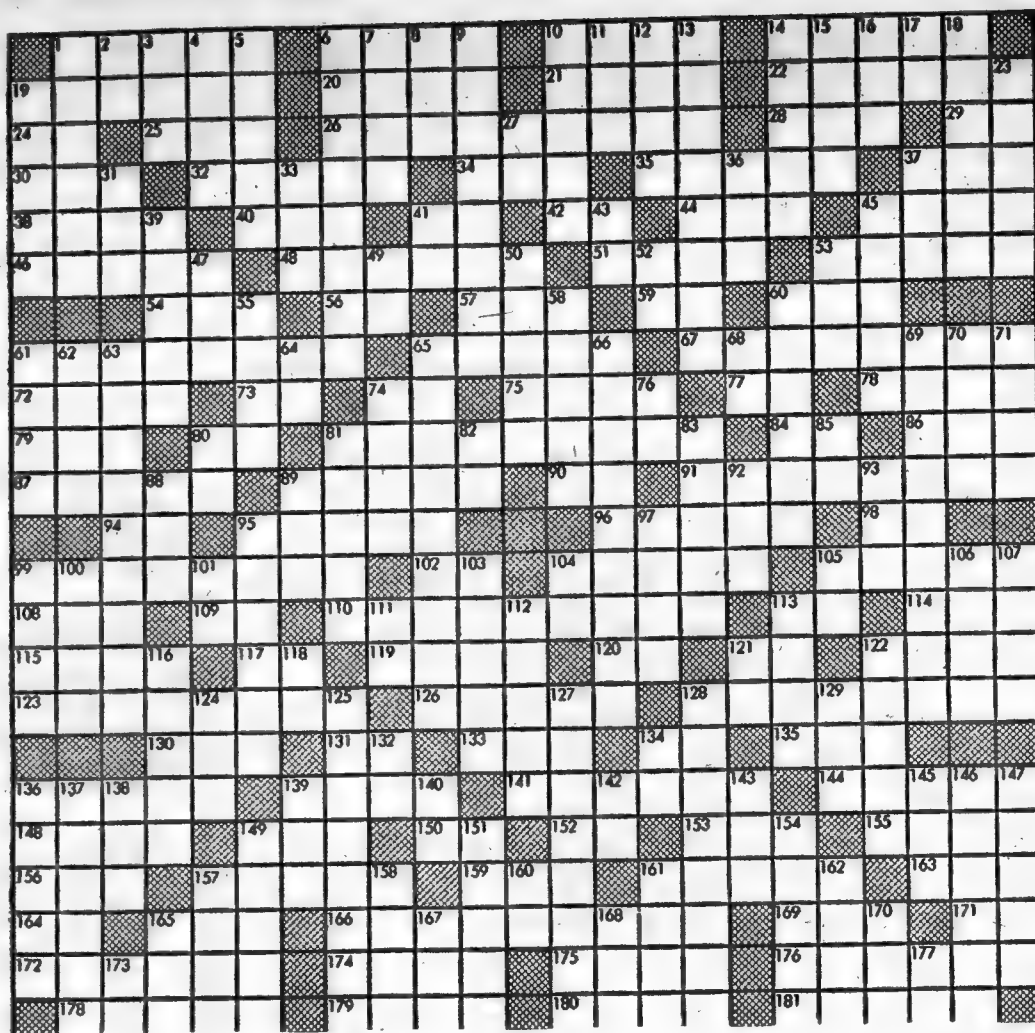
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**EXPORT "A"**  
FILTER TIP  
CIGARETTES



# CROSSWORD



## ACROSS

- 1 Store  
6 Temporal infinity  
10 Animal  
14 Blandly pleasing  
19 Kind of gaiter wrapped around leg  
20 Violent cold wind over Northern Adriatic  
21 Heraldic bearing  
22 Takes care of medically  
24 51 (Rom. num.)  
25 Hindu cymbals  
26 Washing establishments  
28 Ethiopian title  
29 Exclamation of triumph  
30 Indonesian of Mindanao  
32 Amber colored substance  
34 Transgression  
35 Great personage  
37 A twitching  
38 Part of apple  
40 Child's game  
41 Sloth  
42 Babylonian deity  
44 Allow  
45 Noise of watch  
46 Rub out  
48 Guard  
51 To handle roughly  
53 Game  
54 Pitch  
56 Symbol for tellurium  
57 Bird's beak  
59 Note in Guido's scale

- 60 Deface  
61 Torment  
65 Religious song  
67 Disappear gradually  
72 First name of Persian poet  
73 Greek letter  
74 Continent (abbr.)  
75 Non-Moslem subject of Ottoman Empire  
77 Teutonic deity  
78 Unite pieces of metal  
79 Through  
80 Aloft  
81 Consequent  
84 Depart  
86 Fish  
87 Trojan hero  
89 Greek market place  
90 Plural ending  
91 Investigation of causes of a disease  
94 Spanish for "yes"  
95 Fashionable boulevard in Madrid  
96 Person of inferior mental development  
98 Printer's measure  
99 Toward a location  
102 Symbol for sodium  
104 Flower  
105 City of Spain  
108 Is not found (abbr.)  
109 North Syrian deity  
110 Greek philosopher

- 113 Kind of palm  
114 American humorist  
115 Jargon  
117 Sacred Hindu word  
119 Star  
120 Exists  
121 U. S. soldier  
122 Extent of land  
123 Thankless person (pl.)  
126 Of the mythical god of winds (var.)  
128 Act of being unfaithful to a trust  
130 City in Paraguay  
131 Pronoun  
133 Fondle  
134 Symbol for tantalum  
135 Pronoun  
136 Sun-dried brick  
139 Puts on  
141 The tarpon  
144 Runs away from  
148 Tree  
149 104 (Rom. num.)  
150 Preposition  
152 Behold  
153 Beat it  
155 Roman emperor  
156 Anglo-Saxon coin  
157 American Indians  
159 Man's name  
161 Blackhand society  
163 Flatfish  
164 Prefix down  
165 Away  
166 Kind of speech (pl.)  
169 Anglo-Irish love  
171 Old musical syllable  
172 Tallies

- 174 Brother of Jacob  
175 Bird's home  
176 Ship's rope for mooring  
178 Melts  
179 Period of time (pl.)  
180 Body of water (pl.)  
181 Inclination

## DOWN

- 1 Wooer  
2 Size of shot  
3 Siamese pewter coin  
4 Scorch  
5 Spartan serf  
6 Blind by some moral tie  
7 Lend  
8 Indeed (Anglo-Irish)  
9 Stately residences  
10 Carried  
11 Silkworm  
12 Imperial standard of Ottoman empire  
13 Determined  
14 Swagger  
15 Russian river  
16 Roman bronze  
17 State (abbr.)  
18 Principles of honor and morality  
19 Location  
23 Paper containers  
27 The gods  
31 Macaw  
33 Juice of plant  
36 Gelatinous precipitate  
37 Even score  
39 Compound ether  
41 Measure of land  
43 Form of to be

- 45 Tossed organ  
47 Hearing  
49 Symbol for tellurium  
50 Acquire knowledge  
52 Symbol for gold  
53 Metal container  
55 Inclined walk  
58 Rakish fellow  
60 Border  
61 Act out of sorts  
62 So be it  
63 Fondling  
64 Chinese measure  
65 Treat with condescension  
66 Foully contagious  
68 Brother of Odin  
69 Subordinate  
70 Impede  
71 Whirlpool  
74 Glottal stop in Spanish speech  
76 Article  
80 Pronoun  
81 Genus of Old World lizards  
82 Babylonian deity  
83 Succinct  
85 Hawaiian bird  
88 River island  
89 Macaw  
92 Plaything  
93 Meadow  
95 Spanish-American game  
97 Lubricates  
99 Combining form: hook  
100 One of the furs (Her.)  
101 Syllable of scale  
103 River of Derby, England  
104 Perform

- 105 101 (Rom. num.)  
106 Notion  
107 Enthusiasm  
111 Sun god  
112 Stories  
113 Yugoslav ruler  
116 Social division  
118 Pronoun  
121 Earth goddess  
122 Milwaukee ballplayer  
124 Goddess of infatuation  
125 — coal on fire  
127 Europeans  
128 Steadies in mind or conduct  
129 To chafe  
132 Printer's measure  
134 Chinese pagoda  
136 Footless animals  
137 Straight forward  
138 Tierra del Fuego  
139 Indian  
139 Expire  
140 Therefore  
142 Buddhist monk  
143 Simpleton  
145 Directed  
146 Swapped  
147 Sedate  
149 Rood  
151 Abyssian ruler's title  
154 Power  
157 Complement of ship  
158 Here it is, fencing cry  
160 Card game  
161 Tableland  
162 Sandarac tree  
165 Monk's title  
167 Negative vote  
168 Command to horse  
170 Reverential fear  
173 Exclamation  
177 Symbol for tin

Solution On Page 38

## Shield oats

THE Soils and Crops Branch of the Manitoba Department of Agriculture, points out that Shield variety of oats is not a recommended variety. While it is characterized by its earliness and good rust resistance, it has a considerably lower yield than Rodney, Garry or Ajax.

The Shield variety of oats is currently being sold at high prices in Manitoba, so the Soils and Crops Branch feel that farmers should have the complete story.

## Oat favorites

SURVEYS have shown approximately 70 per cent of the Manitoba oats acreage to be sown to Rodney and around 20 per cent to Garry. The widespread acceptance of these two varieties has been due to their superior disease resistance coupled with good agronomic characteristics. Both are resistant to all important races of stem rust and smut. Until recently, they were considered resistant to crown rust, but new races of the latter have built up to the point that these varieties must be considered at least moderately susceptible.

Comparisons on an agronomic basis show Rodney to be a slightly higher and more consistent yielder, but later maturing by three days. Both have good straw strength. The unusually large, plump kernels of Rodney have had an appeal to many farmers.

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**PLASTIC PIPE**  
FOR FARM AND INDUSTRY

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204 Montcalm Street, Winnipeg, Manitoba  
LEnot 3-8908  
A Division of British Rope Canadian Factory Ltd.



## Meat industry

**T**HE meat packing business is just over 100 years old in Canada. The first packing plant, here, was built in 1854, in Toronto. Meat packing, today, is ranked fifth in Canadian industries, with close to a billion dollars worth of processed products turned out annually.

## Cultivations by contract

**A** RETIRED officer of the Indian Army is making a good thing of an odd kind of contract farming in Britain.

Mr. Richard Grogan took a course in agriculture at Cambridge and five years ago took a 60-acre farm in Sussex, where he now specializes in doing contract work for dairy farmers.

If the farm client wishes deferred terms, payment may be made on twelve equal monthly installments, with no interest charge.

Advantages of the scheme to Mr. Grogan are that he can plan ahead, keep men on the payroll during the winter, and maintain a wide range of modern machinery. Advantages to the dairy farmer are that he can pay for his cultivations and other jobs out of his monthly milk cheque; have the advantage of modern machinery without having to sink capital in it; and concentrate on his main job of producing milk.

## Black sheep expensive

**T**HE present demands of the wool manufacturer require the grower to produce wool that is free from black fibers. Observations at the Experimental Farm, Lethbridge, indicate that black sheep still are being maintained in range and farm flocks as replacements and "counters". These black sheep are a constant source of contamination partly because by rubbing against the white sheep black fibers are caught on the outside of the fleece and mixed with the white wool. In addition, when black fibers are packed with white ones, a further contamination occurs. As yet, no method has been devised to remove these black fibers mechanically.

The presence of black fibers in a white fleece is one of the most serious defects in our Canadian wools. In various instances, mills have found it necessary to reduce drastically or even to eliminate the use of Canadian wools in certain lines of goods. This situation has developed because in manufacturing these fibers are mixed with the white ones and, as a result, it is not possible to dye the fabrics in light or pastel shades. Since the market demands light-colored materials, this serves only to increase the problem.

In view of this, it is essential that the commercial wool producer do everything possible to provide a quality product to meet the competition from other

fibers. One means of improving the Canadian clip is to cull all the black sheep from the flock and replace them with white sheep. In this way, greater returns would be realized since white wool is worth more than the black types.

## Cow tests

**A**N all-time high of 8,709 Alberta cows tested under the Provincial Cow Testing Service occurred in 1958. The average butterfat production was 347 lbs. per cow which represents an increase of approximately 40 lbs. during the last five years.

The Cow Testing Service is designed for herd owners of dairy cattle and is a milk and butterfat production study of each cow. Herd record books, milk record sheets and sample boxes are provided by the department. The owner must supply his own milk scale.

## Herbicides up in Alta., B.C.

**A**CRES of field crops treated with selective herbicides in Western Canada and percentage of that treated in 1957 are as follows:

	2,4-D and/or MCPA (Acres) of 1957	Percent
Manitoba	2,089,000	69.4
Saskatchewan	5,223,000	62.8
Alberta	5,307,000	130.5
Bri. Columbia	118,000	143.9

Soil sterilants were used extensively to eradicate scattered patches of persistent perennial weeds such as toad flax, leafy spurge, bindweed and others.

Over the past few years service boards have made the proper herbicides easily available locally, and the supervisors having first-hand contact with the farmers, have helped considerably with timely and proper application of the material. As a result fewer failures have resulted from chemical weed control and consequently greater interest shown by the farmers.

## "Wonder Crop" dangers

**S**ASKATCHEWAN farmers are again being subjected to a "wonder crop" seed campaign, reports R. E. McKenzie, of the provincial plant industry branch. The crop is called Sorghum Almum and the literature being circulated suggests that it may be the answer to all the live stock feed problems in Saskatchewan. In actual fact, Mr. McKenzie said, the crop has yet to be tested under prairie conditions.

In the past many varieties of Sorghum have been tested as annual forage crops and found to be generally unsuitable. Sorghum requires a long growing season and very high temperatures. Almost invariably oats for green feed produces more than any Sorghum varieties tested to date. The principal

problem in growing Sorghum is that it may develop hydrocyanic acid when frosted and this makes the feed deadly poisonous to live stock. It is not known if Sorghum Almum has this characteristic, but there is no reason to suppose it would be different. In northern Texas the crop is perennial, but it is not expected that it would stand Saskatchewan winters.

Arrangements are being made to have tests conducted at the various experimental farms this season, Mr. McKenzie said. In the meantime farmers would be well advised not to invest money in high-priced seed until something is known about yield and general suitability under Saskatchewan conditions.

## GLENCOE

### The Sub-Tiller Plow . . . .

with ALL the wanted features

MODELS FOR EVERY FARM AND TRACTOR 6' TO 35'

There's a size and model to suit every customer's exact needs.

**GLENCOE GIVES BETTER TRASH CLEARANCE.** Glencoe, and only Glencoe, Chisel Plow design has the unique combination of short and long shanks on an unusually rugged "battleship frame" of much greater front-to-rear depth than ordinary plows. More distance between each following shank and scientifically staggered placement of shanks give Glencoe plows their remarkably better trash clearance and freedom from "plugging" or "clogging". Notice how trash seems to flow in between the shanks of a Glencoe Plow (Fig. 1) in contrast to action in the ordinary plow (Fig. 2).

**"BATTLESHIP" FRAME.** Glencoe high tensile steel frame members give tremendous strength. Tongues are one-piece H-beams, running clear through the machine, solidly anchored and braced against twisting. Their underframe mounting is an exclusive GLENCOE feature.

**FAST CLEARANCE OF OBSTACLES.** Special spring and shank arrangement gives fast, trouble-free clearance of obstacles, and the longest spring in the industry allows shanks to "ride up" over rocks as high as 14". Glencoe's "Spring within a Spring" means more positive penetration — greater safety — it's standard equipment only with Glencoe.

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Genuine Ingersoll one-way discs to fit 1" shaft. • Alloy Steel.

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Raises maximum weight that tractor's hydraulic can lift. Operates off built-in hydraulic system, or auxiliary hydraulic systems. Quick attach pins — Pull only four pins to remove bucket from tractor. Proven by thousands of farmers in actual day-in, day-out farm use.

## KINGSTRONG ALUMINUM

ROOFING & SIDING

24-GAUGE — Ribbed or Corrugated Sheet Size.	Price per Sheet
33 1/2" x 6'	\$2.44
33 1/2" x 7'	2.85
33 1/2" x 8'	3.26
33 1/2" x 9'	3.66
33 1/2" x 10'	4.07
33 1/2" x 11'	4.48
33 1/2" x 12'	4.88
33 1/2" width sheets cover 32"	
24-GAUGE FLAT ALUMINUM (rolled in coils). 24" or 36" width.	
Per 100 lbs.	\$49.50



# The Lady OF THE HOUSE

Guest Contributor — EVELYN MORGAN

## Ideas for eggs . . .

**M**OST of us home-making today can remember the time when we were just taking our chances when we went to the store for fresh eggs. If we were lucky enough to be dealing at a small store or a country store we knew our neighbors and also whose eggs we were likely getting.

I guess any of us who bought eggs are not sorry the day of ungraded eggs is gone. But now there is, the experts say, no money in the small flock. I believe they are right, but there is still a treat in a new laid egg.

I hope to keep my flock, not just for the ever-available food they provide, but for the bit of change looking after them provides me.

Even on the coldest days I like a quick dash out with the scraps while the house is warming up. The chickens liver up quickly on a pan of scraps, too. Later in the morning, I take out the hot water and fill a feed pan that needs it.

The children come with me and some days it's the only outing they get if it's very cold. Later in the day they can go out and sprinkle a little feed before dark and close up the mash trough, and, of course, gather the eggs.

Every one I suppose has plenty of egg recipes. For those who need a few suggestions on how to use them up with variety are the following: Cream puffs, or eclair shells, jelly roll, sponge cake, angel food, gold cake (that uses the yolks, after the angel foods), several kinds of salad dressings, custards and puddings, and the endless number of ways to prepare them as a main dish.

Remember that milk cooked with eggs tends to make the dish a little heavier, though of course more nutritious. Water will lighten the quality of an omelette.

Additions to most egg dishes are best added when partially cooked. That is if adding meat or cheese bits, it is usual to heat the pan on top of the stove with fat and pour in the omelette. Allow it to cook slightly and then add the extras before putting in the oven. They won't be all in the bottom.

Fondues and custards are "all ingredients in" before going to the oven but usually contain as much of other ingredients as the eggs. Most of these should be baked with the baking dish set in a pan of water. This prevents burning and also a curdling that occurs in some recipes if direct oven heat is used.

The use of whipped eggs in many refrigerator desserts stretches the dessert for extra servings as well as providing extra food value.

Meringues are less likely to fall after baking if they are cooled right in the oven. If your fuel is not the most modern, set your baked product on top of the warming oven or shelf to cool. Electric or gas ovens, of course, need only to be turned off.

### RELAX WITH

- 1/2 cup butter
- 1 cup water
- 1 cup flour, sifted
- A dash of salt
- 1 tsp. vanilla
- 4 eggs

Combine water and butter in a sauce pan and heat until it boils vigorously. Put the flour in all at once, and stir quickly until mixed and it leaves the sides of the pan in a ball. Remove from heat, and cool for two minutes. Add salt and vanilla. Drop eggs in one at a time, beating briskly after each egg. This is important.

Drop small spoonfuls on a baking sheet two inches apart. Bake in a hot oven at 450° F. for fifteen minutes, then reduce heat to 350° for 25 minutes. When cool they may be stored in a closed container with air holes. To fill slit carefully on the side and fill with the usual whipped cream, a pudding mix, a whipped jelly, cheese mixture, or for a very sweet confection, seven-minute icing.



## Here's An Idea . . .

### Meat and Cheese Burgers

**U**NEXPECTED company sometimes means not quite enough to go around. That is the time to make use of breads and rolls. They can be filled with such an interesting variety of foods they become company fare.

- 1/2 lb. ground meat
- 1 egg
- 1 tbsp. minced onion
- Salt, pepper, sage, dry mustard to taste
- 3 tbsps. flour

Mix all together and shape into patties. Fry or broil lightly, and place between split round buns.

On top of the meat pattie place any one or two of the following, slice of cheese and a ring of pineapple, cream cheese and slice of beet pickle, tomato and onion. Place the top on the bun and warm in the oven until ready to serve.

Have ready and drained any solid canned fruit, such as cherries, apricots and crabapples and place on the platter between the burgers. Yield: eight servings.

For a quick company dessert:

### FRUIT CAKE

- 1 layer sponge cake (round)
- 1 tin pears, peaches or apricots
- A few candied fruits, such as cherries, peel, or pineapple
- 2 tbsps. corn starch
- 2 tbsps. butter
- Cocoanut flavoring

Melt the butter in a skillet (with a tight top), and lay the fruit, drained, with the round side down, in as interesting a pattern as possible, with the candied fruit between. Put one cup of the fruit juice in a sauce pan with the cornstarch and cook till thick. Add the salt and flavoring. Pour gently over the fruit. Lay the cake on top, and cover and heat. Put the serving plate in place of the lid, and turn pan upside down. Serve at once.

### RHUBARB MERINGUE PIE

- 2 cups rhubarb
- 2 eggs, separated
- 1 cup brown sugar, or more for tart fruit
- 1 unbaked pie shell
- 1 tsp. gratings of orange Cinnamon
- Salt

Line a nine-inch pie tin with the pastry, and put in finely cut rhubarb. Whip the two egg whites stiff. In a different bowl

whip the yolks, add the sugar and remaining ingredients, with the egg whites last. Pour over the rhubarb. Bake at 400° F. for fifteen minutes to brown top, then reduce and bake more slowly until firm. About one-half hour at 300° F.

The following pack well for lunches:

### BANBERRY TARTS

- 1 dozen muffin tin lined with unbaked pastry
- 2 cups rinsed currants
- 1 cup brown sugar
- 2 eggs
- Vanilla, nutmeg, salt

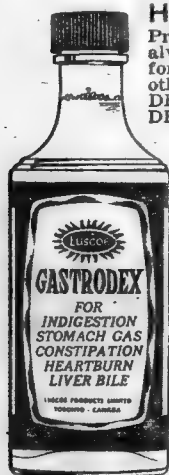
Combine the sugar and egg yolks, and beat well. Add vanilla, nutmeg and salt. Then the currants. Lastly whip in the beaten egg whites. Bake in a quick oven lightly browning the meringue which rises to the top of the tarts.

Also for the lunch:

Hard boil eggs at least a couple of days old so the shells come off clean. Split in half lengthwise. Mash the yolks with a fork and add a little salad dressing and celery or onion salt. A sprinkle of paprika for color. Put the two halves back together and twist into a wax paper to hold it and keep fresh.

### HEALTH is LIFE:

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results, take GASTRODEX before or after meals 3 or 4 teaspoons daily, until safe relief is fully obtained. No other medicine like it. Price only \$3.00 per bottle at all druggists. LUSCOE PRODUCTS LTD., Toronto 4, Ont.



## Kitchen tips . . .

**W**HEN you have boiled rice, save the drained off water in a jar, and refrigerate until you have soup. It will stretch the soup for an extra helping or two, and provide a very smooth thickener.

Water in which potatoes and other mild vegetables have been cooked may also be added to soup just before serving, but do beware of the strong flavored vegetables such as turnips, cabbage and cauliflower. These can kill the other blend of flavors, particularly soups with a beef stock base.

What to do with the delicious juice left over when the jar of sweet pickles is empty? Add it to the brown baked beans in place of vinegar and the sugar. Taste for best results.

Beet pickle juice can be used to dress cole slaw or your favorite cabbage salad. Its pink color make it a children's favorite.

Singeing fowl is safer and easier if instead of holding the bird over a flaming paper, you use a cigaret lighter. No need to even lift the bird from the work table.

Fish scaling is simplified if the fish is first dipped in boiling water. There will be fewer scales flying around, and they slip off easier. This is inclined to soften the flesh of the fish. Counteract it immediately, after scaling, by sprinkling the fish with salt.

Bacon slices which are cut very thin should be put in cold water to soak for about five minutes just before cooking. Shake off the excess water and fry as usual. There is less shrink and curling to it.

Add an envelope of dissolved gelatine to home-made ice cream when you mix it, and you are less likely to have ice crystals in it.

Did you know that the expensive sauces and bits you have put on your ice-cream desserts, such as sundaes, tulips, and floats, can be made up very cheaply at home. Make them up as preserves and extra sweet sauces, flavor and color them highly, and a "little bit goes a long way."

## Plant hints . . .

**I** FIND window-box gardening one of the most satisfying ways of growing things. Its chances of succeeding are so good. No pig ever rooted it out, nor can Rover lay on it. I can mix exactly the kind of earth I want in it, and protect it from frost. I also use it to start early plants in the spring.

Some of the mistakes you can avoid:

My first boxes warped. Paint them inside as well as out.

They shut out too much light. Put them up with the top of the box on the level with the bottom

of the window glass. Then only the plants show in the house.

They drained too slowly. Six holes bored in the bottom for every two feet of box. Use light earth. Clay can be mixed with straw to make it more porous. If it starts to heat, turn it until the process ends, about ten days.

Since those first boxes I have bought one per year, a box from the green house, and each year I have added a small bag or two of good black earth that is in a more fertile district than that where I reside.

Suggested seeds to plant:

South windows: Nasturtiums, Asters, (dwarf kinds), Dwarf Zinnias, Marigold, (very successful); Petunias, Clarkia, Moss, Rose, Babybreath, and spaces left for my Geraniums.

East and north windows: Alyssum, Bachelor Button, Petunias, Mignonette, Pansy and tuberous Begonia.

Moring Glory make a good addition to a widow box but require more water than the smaller plants, once they grow long vines and blossoms.

Note on tuberous Begonia: For those who may not be familiar with them. They are as beautiful as a rose. They come in upright plants of several colors, and trailing vine types. They cost about thirty-five cents each bulb, but they are well worth it. Not more than two to a box is advisable as they have a lot of foliage. Be sure to plant with the top of the bulb well out of the soil. They will rot if buried as most bulbs are planted.

For extra protection, re frost, wind and hail, bend eighteen-inch twigs over slightly diagonally and stick both ends in the ground. Cover with sacking when protection is needed. There is a cereal put out in a plastic bag that is ideal. Cut out the bottom of the bag for extra air and slip right over the box. Good luck all flower growers.

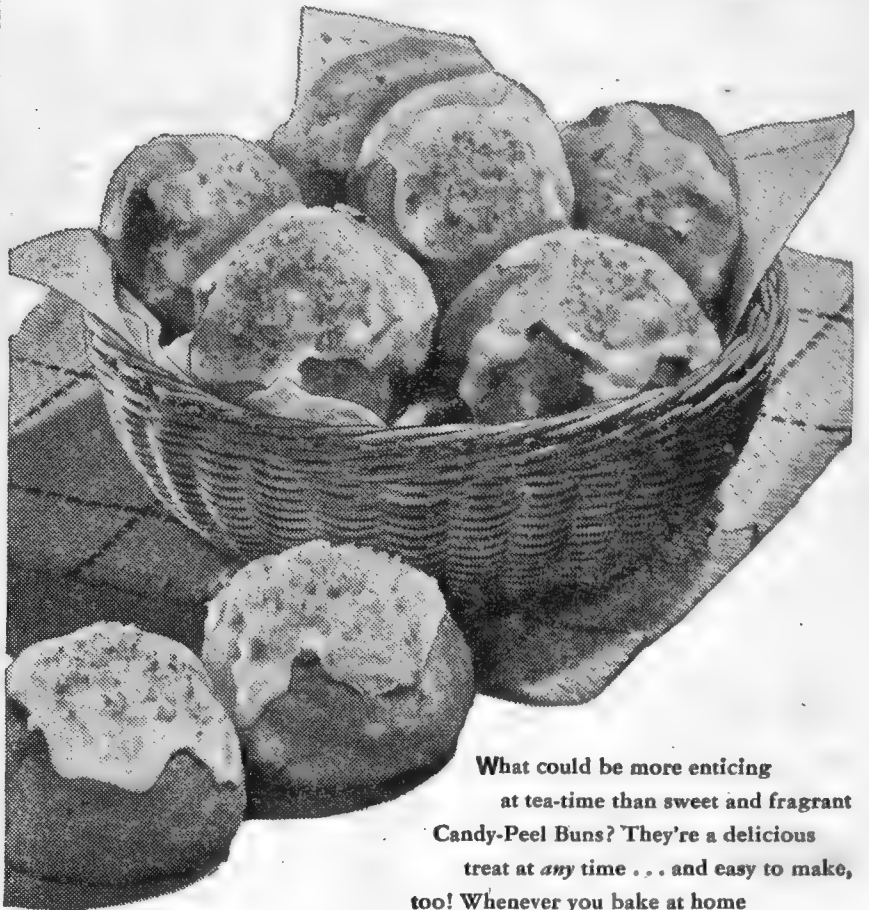
## Chick-time

**S**PRINGTIME is chick-time to transportation and trucking companies as it is to farmers in the west. The C.N.R., alone, estimates that it will handle close to 40,000 cartons of chicks this year. There are 100 chicks to a carton.



"It's not me that can't keep a secret, Dear! It's the girls I tell them to."

# Sweet-tooth treasures! CANDY-PEEL BUNS



What could be more enticing at tea-time than sweet and fragrant Candy-Peel Buns? They're a delicious treat at any time . . . and easy to make, too! Whenever you bake at home depend on Fleischmann's Active Dry Yeast for wonderful results every time. Surprise your family with this toothsome treat tomorrow.

## CANDY-PEEL BUNS

Measure into bowl

$\frac{1}{2}$  cup lukewarm water

Stir in

2 teaspoons granulated sugar

Sprinkle with contents of

2 envelopes Fleischmann's Active Dry Yeast

Let stand 10 minutes, THEN stir well.

Meantime, sift together into a bowl

$1\frac{1}{2}$  cups once-sifted all-purpose flour

1 teaspoon salt

2 tablespoons granulated sugar

Mix in

$\frac{1}{2}$  teaspoon ground cardamom seeds

Cut in finely

$\frac{1}{2}$  cup chilled shortening

and mix in

$\frac{1}{2}$  cup chopped candied peel

Combine

3 well-beaten eggs

$\frac{1}{2}$  teaspoon vanilla

and dissolved yeast.

Stir into flour mixture and beat until smooth

and elastic. Cover with a damp cloth. Let rise in warm place, free from draft, until doubled in bulk, about  $\frac{1}{2}$  hour. Stir down batter.

Work in an additional

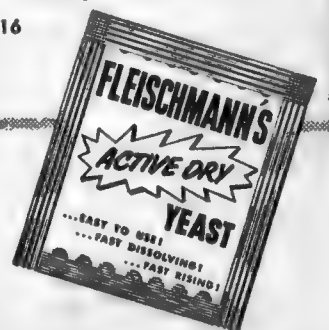
$1\frac{1}{2}$  cups (about) once-sifted all-purpose flour

Turn out dough onto a large square of cheesecloth; gather edges of cheesecloth together loosely and tie. Drop dough into a large pan of cool, but not chilled water and let stand until doubled in bulk, about 45 minutes. Remove dough from cheesecloth and place on very-well-floured board or canvas. Form into a 16-inch roll; cut roll into 16 equal pieces; form into smooth balls. Place, well apart, on greased cookie sheets. Place with melted butter or margarine. Cover. Let rise until doubled in bulk, about 25 minutes. Bake in a hot oven, 425°, 12 to 15 minutes.

Frost while warm with the following icing and sprinkle with chopped nuts.

Combine 1 cup sifted icing sugar and  $\frac{1}{4}$  teaspoon vanilla; add sufficient milk to make a stiff icing.

Yield: 16 buns.



Needs no refrigeration  
Always active, fast rising  
Keeps fresh for weeks



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Unsexed, Per 100 **\$18.95**

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	Pullets	Unsexed
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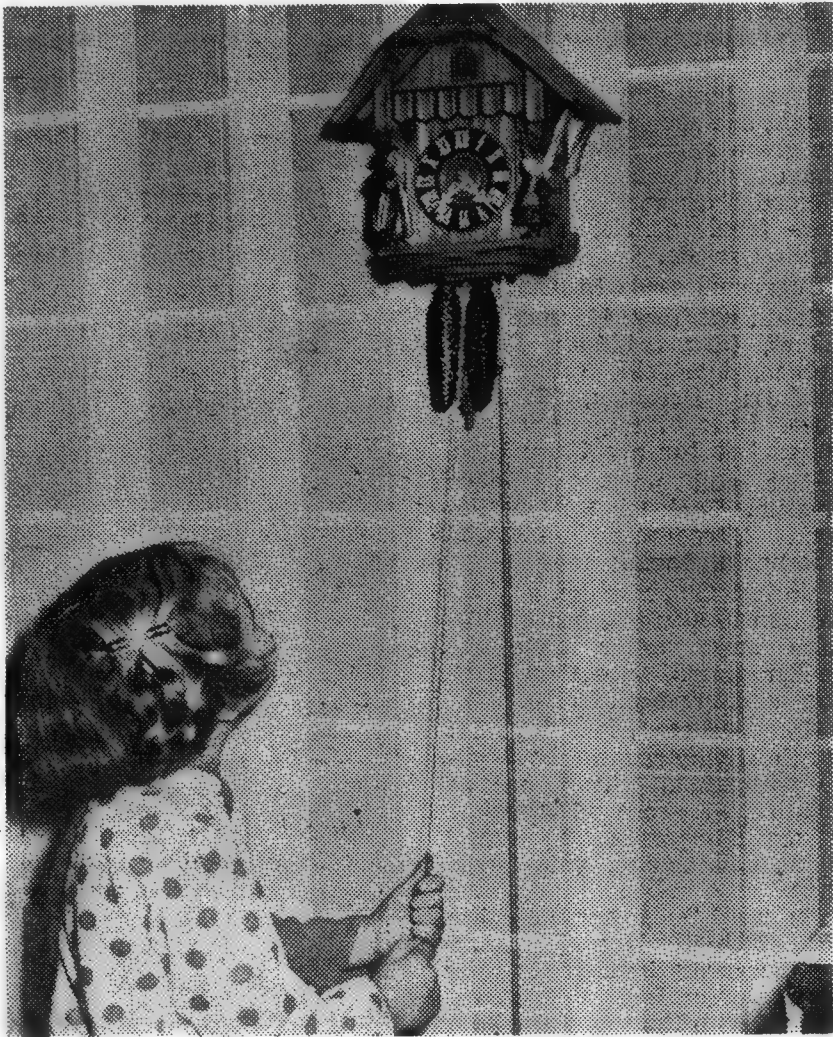
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Box 366, Sherbrooke, P.Q.

# Farm and Ranch Photo Corner



A little girl goes to bed. That's an intriguing subject for any parent's collection of slides or snapshots. A sequence tells the story better than a single snap. Above, the child winds the clock as bedtime approaches, setting the time and pace for the complete sequence.

"SNAP!" You've just taken another picture of your child for the family album.

Does the picture tell a story? Is it part of the biography in pictures that will hold forever the story of your child's growing up?

Many chapters of this growing up story cannot be told in a single picture. A snapshot sequence is needed to trace the child's progress step by step.

One exciting sequence is a photo-essay picturing a day in the life of your child.

Here is a suggested shooting script on this intriguing subject.

## MORNING

Picture 1—The young subject rising. A good shot is of the child yawning with the sun peeping through the curtains suggesting morning.

Picture 2 — Brushing teeth, combing hair, or dressing can all be interesting shots. Shoot from an unusual angle, to add variety. A simple camera with flash can catch this and other indoor scenes.

Picture 3 — Breakfast. A candid of the child eating breakfast... a large glass of milk in the hands of a small child often makes an interesting and amusing shot.

Picture 4 — Off to school if the child is old enough, or playing in the yard if the child is of pre-school age. If you have a family pet, pictures of the young one playing with the animal will bring pleasant memories when they are viewed in the future.

# Making a Photo Essay



The stage set by the first picture, the rest follow in logical pattern. Here, film and flash catch the child as she brushes her teeth before bedtime. The sequence may be as few as three or four snaps, or may include an unlimited number of pictures.





Jumping on the bed gets rid of that last bit of unused energy left over from a busy day. Flash and fast shutter combine to catch the peak of action. A pretty picture, yes, and more meaningful because it's part of a story-telling sequence.

#### AFTERNOON

Picture 5 — Lunchtime. Be sure the picture portrays a different action from that pictured at breakfast.

Picture 6 — If the child is young enough to be taking naps, snap a shot going upstairs or one in bed.

Picture 7 — More playtime shots. Bouncing a ball with some young friends, scooting, or skipping rope all make good pictures.

#### EVENING

Picture 8 — Suppertime, and

all the family gathers around the table.

Picture 9 — Portray your child's activity just before going to bed. If Father reads a story to the child, picture the two together.

Picture 10—Off to bed. Here you might show the child saying his prayers.

Why not plan to make a series of pictures of an important event each year? Special occasions like birthdays and holidays offer wonderful "series" material. Include one picture, each birthday with Mother and



A moment for quiet prayers is a chance to capture on film some of the innocence and charm of childhood. This snap could be among the most prized in the sequence.

Father for a record of year-by-year growth.

your permanent picture collection.

Almost any activity of your child offers great material for a snapshot story that belongs in

A good picture sequence is worth every bit of effort you expend.

## ECONOMY! CONVENIENCE! QUALITY!

You get all three with  
this money-saving  
**3 LB. PACK**



\*TRADE MARK REG'D.

Because each pound of delicious, all-vegetable Blue Bonnet is individually wrapped, you can color one pound at a time easily and quickly. The unused pounds stay fresh longer — free from ice-box odors — perfectly protected until needed!



Asleep at last, the child's evening ends on a note of quiet charm. Every parent with camera and flash can catch this one while the youngster is finally keeping still, and it is one they will cherish in the sequence.



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**REINCARNATION** — To man's frame there come infancy, youth and age; so come there come raisings up and layings down. — Bhagavadgita.

**100 - 500 — MORE** paid for your child's photo, if selected for advertising illustrations, etc. Hundreds used weekly. Rush photo for approval. Returned promptly. Free service. **AD-PHOTOS**, 6087-FXF Sunset, Hollywood 28, California.

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**DEPRESSION PRICES. WE SELL CHEAP.** SAVE 75% off-new and used tractor parts, crawlers and wheel tractors. 190 makes and models. 1959 catalog ready. Send 25 cents refundable. Surplus Tractor Parts Corporation, Fargo, N. Dak.

## Eskimo co-op

**THE Alberta Wheat Pool Budget reports** that the first Eskimo co-operative may soon be formed along the east coast of Ungava Bay in Northern Quebec.

## Alberta's Feeder's Day

**THE University of Alberta** announces that the province's 38th Annual Feeder's Day is scheduled for Saturday, June 6th, this year. Information about the program is not available as the Farm and Ranch goes to press, but the many interested in Feeder's Day will want to keep the date in mind.

## Licenses required

**MR. W. H. T. MEAD**, Alberta's Live Stock Commissioner, advises of new regulations under the Livestock and Livestock Products Act. These require that all persons who operate facilities for assembling livestock, either purchased, or accepted on a consignment basis

for resale or reshipment, be licensed as operators of stock-yards as from January 1st, 1959.

## Experts gather

**THE largest scientific gathering ever to be held in Canada** will be the 9th International Botanical Congress, August 19 to 29th. The Congress to be held in Montreal will be attended by some 6,000 delegates. Around 2,000 of these botanists, who represent 72 countries, will take part in an extensive series of field trips to all parts of Canada.

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**All-Purpose Roller Mills**

**THE PERFECT WAY TO PROCESS WHEAT, OATS, BARLEY, AND OTHER SMALL GRAIN.** CANADA'S best, precision-built Grain Roller... Smart feeders everywhere are switching to Automatic Roller Mills to improve feeding results, stop feed waste and to get maximum gains from every bushel they feed. Automatic Mills are ruggedly constructed for long tough service. Available as a bench, skid or PTO trailer unit for farm and commercial work.

**IDEAL** for overhead mounting... over pits, mixers, tanks, trucks. Engineered for "Push-Button Feed Plant Operation" for farm or commercial use. Also available in stacked rolls two or three high. Rolls are self-adjusting for all grains.

**Exclusive**... New "Tractor-Mounted" Roller Mill Fits to Tractor drawbar or 3-point hitch—with PTO drive for all makes of tractors. Perfect for moving from one location to another and for getting around in tight places.

**TWELVE MODELS & SIZES AVAILABLE**... CAPACITIES FROM 50 to 1200 bu. per hr. Prices start at \$179.00 FOB Swift Current, Sask.

Dealers & Agents Wanted  
**AUTOMATIC EQUIPMENT MFG. CO. LTD.**  
P.O. Box 847, Swift Current, Sask., Canada

## Science Now Shrinks Piles Without Pain or Discomfort

Finds Healing Substance That Relieves Pain And Itching As It Shrinks Hemorrhoids

**Toronto, Ont. (Special)** — For the first time science has found a new healing substance with the ability to shrink hemorrhoids and to relieve pain and itching. Thousands have been relieved with this inexpensive substance right in the privacy of their own home without any discomfort or inconvenience.

In case after case, while gently relieving pain actual reduction (shrinkage) took place.

Most amazing of all—results were so thorough that sufferers made statements like "Piles have ceased to be a problem!"

The secret is a new healing substance (Bio-Dyne)—discovery of a famous scientific institute.

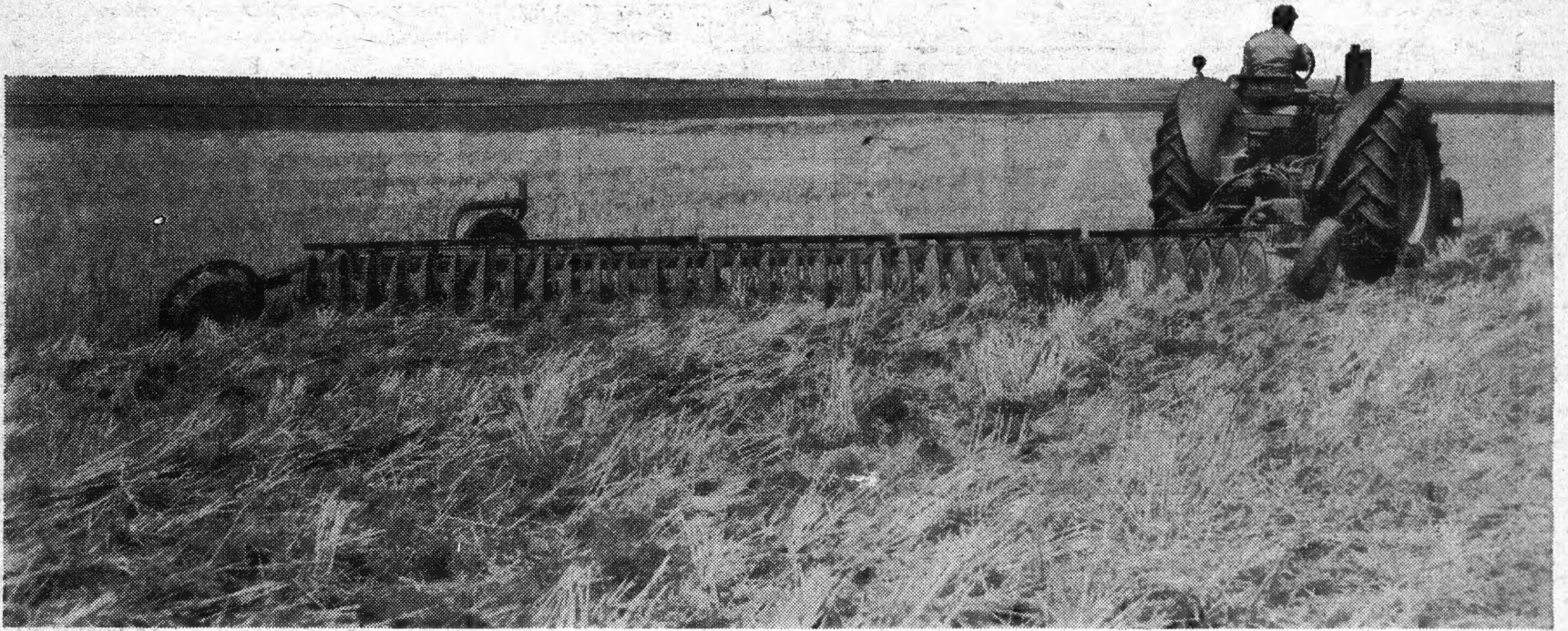
Now this new healing substance is offered in suppository or ointment form called **Preparation H**. Ask for it at all drug stores—money back guarantee.

## Solution To Crossword Puzzle

STASH	OLAM	BEAR	SUAVE
PUTTEE	BORA	ORLE	TREATS
LI TAL	LAUNDRIES	RAS	HA
ATA	ROSIN	SIN	MOBUL TIC
CORE	TAG	AT	EA LET TICK
ERASE	PATROL	MAUL	CHESS
TAR	TE	NEB	UT MAR
MACERATE	PSALM	EVANESCE	
OMAR	MU	SA	RAIA ER WELD
PER	UP	ATTENDANT	GO COD
ENEAS	AGORA	ES	ETIOLOGY
SI	PRADO	MORON	EN
UPSTRAM	NA	DAISY	CAOIZ
NEI	EL	ARISTOTLE	TI ADE
GANT	OM	AZHA	IS GI AREA
INGRATES	EOLIC	BETRAYAL	
ITA	HE	PET	TA OUR
ADOBE	DONS	SABALO	BOLTS
PINE	CIV	ON	LO LAM NERO
ORA	CREES	ELI	MAFIA DAB
DE	FRO	LANGUAGES	GRA DE
SCORES	ESAU	NEST	HAWSER
THAWS	DAYS	SEAS	TREND



# Burglar-proof Your Moisture Bank



## Cut Costs with **JOHN DEERE** Equipment

Above—This John Deere 1200 Series Surflex Tiller is doing top-notch work . . . taking a 20-foot "bite" each trip across the field . . . can cover 100 acres a day. The draft-balanced hitch, parallel flexibility, precision-type bearings, and sharp, mesh-grain disks improve tillage and reduce draft. Surflex Tillers also are available in smaller sizes.

Below—High strength-to-weight ratio, rigid 4-square frame, husky I-beam hitch, roomy clearance, and moderate cost are among the many desirable features of the John Deere 100 Series Tool Carrier. These durable carriers are available in 10- to 16-foot widths.

Moisture means money! The more you hold in your soil this year, the more you'll have for next year's crop—and your John Deere dealer has the dependable, cost-cutting equipment you need to burglar-proof your moisture bank.

Big-capacity John Deere Surflex Tillers have stress-balanced construction for shock-resisting strength . . . parallel flexibility for deep, uniform work . . . draft-reducing, precision-type bearings. Their mesh-grain disks are the finest available.

Light-draft John Deere Rod Weeders have dual-powered, enclosed center drives of hardened roller

chain. You'll like their tempered, square, rotating rod . . . rod-balanced weight for sure penetration . . . rugged strength . . . trash-clearing action.

Versatile John Deere Tool Carriers handle a wide variety of sweeps, shovels, chisels, and other tools for deep or shallow tillage—for the exact kind of stubble mulching you want. There's a full choice of these carriers . . . a type for every need . . . including the straight-trailing 100 Series "light heavy-weight" (below) with its high clearance and husky 4-square frame.

Your summer-fallow headquarters is as close as your John Deere dealer. See him soon for complete information.



**JOHN DEERE**

"WHEREVER CROPS GROW, THERE'S A GROWING DEMAND FOR JOHN DEERE FARM EQUIPMENT"

### SEND FOR FREE LITERATURE

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☐ Surflex Tillers ☐ Rod Weeders ☐ Tool Carriers.

Name \_\_\_\_\_ ☐ Student

R.R. \_\_\_\_\_ Box \_\_\_\_\_

Town \_\_\_\_\_ Province \_\_\_\_\_





**Your old tractor  
may be running**

**but it's probably costing  
you money and lost time!**

These days, a farmer has to do more work in less time than ever before. Older tractors were adequate in years gone by, but you need *today's* tractor to show a profit in *today's* farming.

# TRADE NOW

**and get the money-earning benefits  
of a New INTERNATIONAL**



**IH New multi-range 6-cylinder engines**  
the greatest advances in big tractor power in 35 years. See how this 6-cylinder power adapts to big and small jobs!

**IH Torque Amplifier**  
45% and changes travel speed *on-the-go*—enabling you to do 10 to 15% more work per day.

**IH Completely independent power take-off**  
—teamed up with TA it gives unequalled efficiency to power-driven machines. Now separate engine performance without separate engine expense!

**IH 2 or 3 valve Hydra-Touch hydraulics**—  
more Hydraulic power than ever before—easily adapted to meet your most exacting requirements.

**Show us your power problem—we'll  
show you the INTERNATIONAL to meet it**

## SPECIAL FOR THE WEST!

**International 460 Wheatland—Multi-range 6-cylinder engine—48 drawbar horsepower—diesel or gas.**—Built to meet the low-cost power requirements of the average-size Canadian wheatland farm. Offers the best in economical, versatile modern power for every-season jobs.

**International 560—multi-range 6-cylinder engine—54 drawbar horsepower diesel or gas.**—See how much further ahead you can be in acres and economy with this magnificent modern multi-range SIX. New drive-easy comfort too.

**International 660—multi-range 6-cylinder engine—68 drawbar horsepower diesel or gas.**—The ultimate in power and performance for the big operator. Independent power take-off, Torque Amplifier and Hydra-Touch hydraulics included in its long line of features. TA now foot operated. Ground speeds from 1.79 to 16.11 mph.

Your IH Dealer is the man to see

# INTERNATIONAL HARVESTER

INTERNATIONAL HARVESTER COMPANY OF CANADA, LIMITED, HAMILTON, ONTARIO  
Farm Tractors and Equipment • Motor Trucks • Crawler Tractors • Construction and Commercial Equipment





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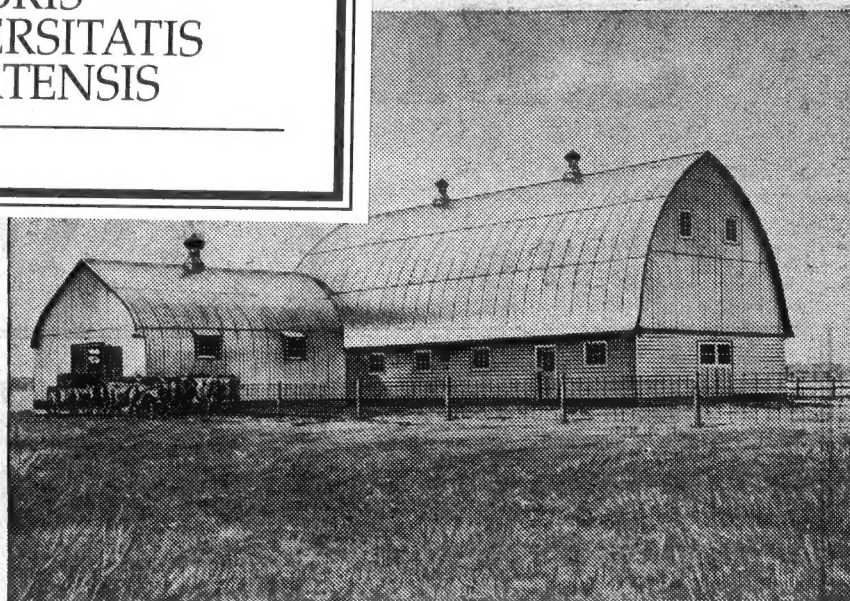
look  
Canadian farmers

are using

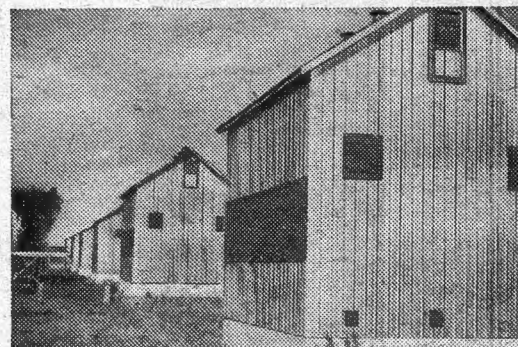
# ALUMINUM ROOFING AND SIDING!

## ... HERE'S WHY

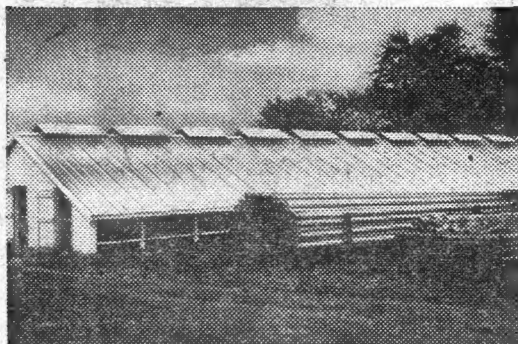
- **MORE PRODUCTION** Aluminum's remarkable *heat reflectivity* throws off summer heat, keeps buildings up to 15% cooler. Cooler farm buildings keep stock healthier, feeding better, producing more, boosting profits. And buildings that are cooler are so much more comfortable for you and your men to work in.
- **PROTECTION** for more than a lifetime. Won't rot or rust away or catch fire.
- **NO RED RUST**—even at nail holes, cut edges, or scratches.
- **NO REPAIRS**—no painting, no maintenance. First cost is last cost.
- **LIGHT**, easy to handle and apply.



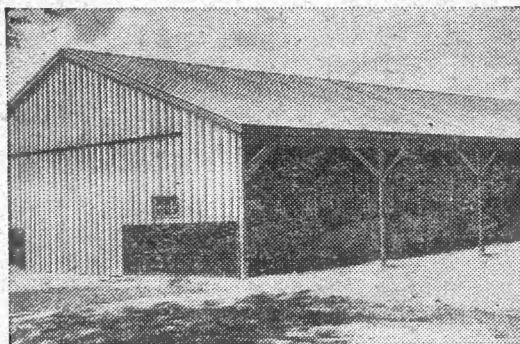
**HOG HOUSE** With house kept cooler, more comfortable, hogs are healthier, reach marketable size in shorter time; less feed is required, more profits made.



**TOBACCO KILN** Aluminum provides the even temperature so necessary for uniform quality and color; less waste, more profits. Gives enduring and attractive outside appearance.



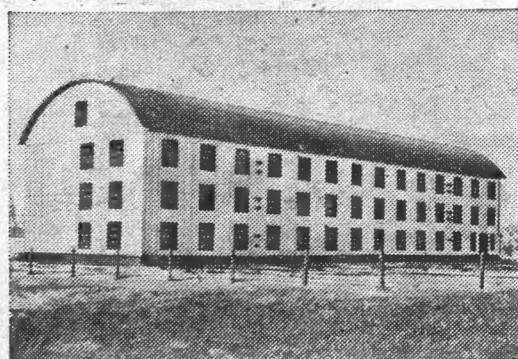
**MINK FARM** Aluminum provides consistent heat reflectivity, maintains an even temperature, and thus improves fur quality.



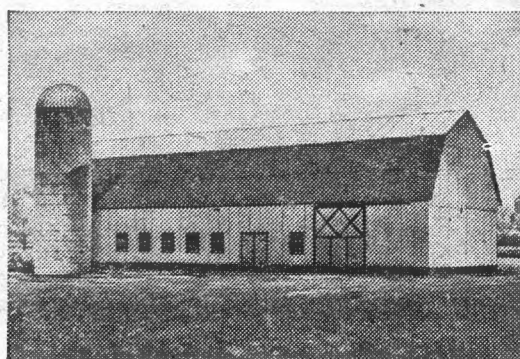
**MACHINERY SHED** Protected by enduring ALCAN Aluminum, sheds like this give continuing service to guard valuable machinery against the weather indefinitely.



**COMFORTABLE HOME** A handsome roof of ALCAN Aluminum provides more comfortable living inside, because of its heat-reflecting qualities. It provides permanent protection without any expense for maintenance.



**POULTRY HOUSE** for healthier birds that lay more eggs, reflective ALCAN Aluminum keeps house more comfortable, gives lasting protection, does not harbour vermin.



**BEEF BARN** The remarkable reflectivity of aluminum levels out temperature extremes, for healthier stock that feed better, put on more weight to get better prices, greater profits.

### LOOK FOR THE ALCAN MARK...

Be sure the Aluminum Roofing and Siding you invest in has this "ALCAN" mark along one edge of the sheet—your assurance of long-lasting quality. All leading roofing manufacturers use Alcan sheet and is available from their dealers in standard and heavy gauge sizes across Canada. Attractive stucco embossed finish costs no more.

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FREE FOLDERS TODAY**

**ALUMINUM COMPANY OF CANADA, LIMITED**  
1833 Sun Life Building, Montreal

Please send me free copy of your folder:

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